



TABLE 1

ID #	Gene Name	Accession Number	Size of insert	Left PCR primer sequence	Right PCR primer sequence
C1	c-myc	X95367	503	caagaggacgaagaagaa attgatgtt (SEQ ID NO: 1)	cgctccgcaacaagtc ctt (SEQ ID NO: 2)
C2	c-erb B-2	AB008451	507	gtgttgatggtgactggga atg (SEQ ID NO: 3)	gtactccgggtctctgct gtagg (SEQ ID NO: 4)
C3	Catalase	AB012918	506	gacaaaatgcttcagggtcg tctt (SEQ ID NO: 5)	ccatgctgcataaaggt gtgaatc (SEQ ID NO: 6)
C4	p53	AF060514	506	acttttcgacacagtggtg gtg (SEQ ID NO: 7)	cgagaggtagattgccc cttctt (SEQ ID NO: 8)
C5	Metallo- thionein 2	AB028042	330	gactccagccgccccttct (SEQ ID NO: 9)	aggaatgtagtagcaa acgggtca (SEQ ID NO: 10)
C6	Interleukin-2	U28141	490	tcacagtaacctcaactcctg cca (SEQ ID NO: 11)	gtcagtggtgagaagat gcttgaca (SEQ ID NO: 12)
C7	Metallo- thionein 1	D84397	376	gctctgactctccctgtggtct g (SEQ ID NO: 13)	caaacgggaatgtaga aaacaagtca (SEQ ID NO: 14)
C8	Intercellular adhesion molecule-1	L31625	507	caagtcagagctggaatttc ccat (SEQ ID NO: 15)	tgaaagaactcccaa ctggacat (SEQ ID NO: 16)

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C9	Multidrug resistant protein-1	AF045016	510	ggcaaagagataaagcac ctgaatg (SEQ ID NO: 17)	atagatgcctttctgagc cagcag (SEQ ID NO: 18)
C10	Beta-actin	AF021873	509	aagtattctgtgtggatcgga ggc (SEQ ID NO: 19)	caactcaaggcaatta accaccc (SEQ ID NO: 20)
C11	Tumor necrosis factor-alpha	S74068	510	caaattgcctccaactaatca gcc (SEQ ID NO: 21 )	acagggcaatgatccc aaagtaga (SEQ ID NO: 22)
C12	Nitric oxide synthase-1, inducible	AF077821	510	gtccttgcatcctcattggacc t (SEQ ID NO: 23)	gctgtttgctgcaccatc tttt (SEQ ID NO: 24)
C13	BRCA-1	U50709	499	tttctgggtattgcaggagga aaa (SEQ ID NO: 25)	agtctgcagcagttctgg gaatct (SEQ ID NO: 26)
C14	Metallothionein-IV	AB028041	385	ctgtgacagcattggagcttc ttg (SEQ ID NO: 27)	tttcatgagtgccacca ccacca (SEQ ID NO: 28)
C15	Tumor necrosis factor receptor	AF013955	507	ggctctgtgttggaatatac ccc (SEQ ID NO: 29)	cagttcacacaagaga cgattca (SEQ ID NO: 30)
C16	c-kit	AF099030	504	gagacttggctgctagaaat atcctcc (SEQ ID NO: 31)	aattgatccgcacggaa tggt (SEQ ID NO:32)

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C17	CD40 ligand	AF086711	508	ccaattgaagcctttctcaa gga (SEQ ID NO: 33)	gagtaagccaaaagac gtgaagcc (SEQ ID NO: 34)
C18	Cubilin	AF137068	508	tgaatgcacacatgacttctt gga (SEQ ID NO: 35)	tgatggatacactgcata ctctgcg (SEQ ID NO: 36)
C19	Alkaline phosphatase	AF149417	499	cagatgtggagtatgagatg gacga (SEQ ID NO: 37)	agaccaaagatagagtt gccccg (SEQ ID NO: 38)
C20	Pancreatic lipase	M35302	490	actcagagagcatcctcaac cctg (SEQ ID NO: 39)	cagaagctgtgcactgtt ttctct (SEQ ID NO: 40)
C21	Apolipoprotein CIII	M17178	236	agccctggaggaagagga cccct (SEQ ID NO: 41)	cagaggctggagttgggt tgcc (SEQ ID NO: 42)
C22	Interleukin-4	AF054833	301	tcacctcccaactgattccaa ctctgg (SEQ ID NO: 43)	gtctgtttgccatgctgct gaggttc (SEQ ID NO: 44)
C23	Tissue inhibitor of metalloproteinases-1	AF077817	492	cttggtcaactccaaatcgt catca (SEQ ID NO: 45)	gtgcatatccctggctctc ttggcag (SEQ ID NO: 46)
C24	Ubiquitin	AB032025	341	gcagattttgtaaagaccct gacggg (SEQ ID NO: 47)	acttcttctgcggcagtt gacagcac (SEQ ID NO: 48)

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C25	Matrix metallo-proteinase-2	AF095638	260	agcggtcagtgtgaaggag gtgg (SEQ ID NO: 49)	tgtcccagggcacgatg aagtca (SEQ ID NO: 50)
C26	Interleukin-6	U12234	493	cctgggtccagatgctaaaga gcaagggt (SEQ ID NO: 51)	acctggctccgaaacat cgaggatatt (SEQ ID NO: 52)
C27	Vascular cell adhesion molecule 1 (VCAM-1)	U32086	517	tggaatttgaacccaaacaa aggca (SEQ ID NO: 53)	cccgcatacctctaactgg acctgt (SEQ ID NO: 54)
C28	Phenol sulfotransferase	D29807	495	gctccccagacctgttggatc (SEQ ID NO: 55)	gcatcaaagcgctcatt ctgggc (SEQ ID NO: 56)
C29	GRP94	U01153	503	aatcccagacatcccctgat caaagac (SEQ ID NO: 57)	cacttcttctgtgaccca caatccca (SEQ ID NO: 58)
C30	E-selectin	L23087	506	ttacacgggtgctgtcactgg atgaaa (SEQ ID NO: 59)	caccaggtgcccact attcatgttt (SEQ ID NO: 60)
C31	gastric lipase	Y13899	501	tgcaatcatcagagcatg cctccct (SEQ ID NO: 61)	tccatcctaggaccccg agatcatgac (SEQ ID NO: 62)
C32	HSP27	U19368	503	ggacccttccgcgactggta cc (SEQ ID NO: 63)	tgatttctgccgactgggt ggct (SEQ ID NO: 64)

ID #	Gene Name	Accession Number	Size of insert	Left PCR primer sequence	Right PCR primer sequence
C33	IL-10	U33843	472	cgggtccctgctggaggact ttaaga (SEQ ID NO: 65)	ggatgacggggttctcc aagcagtt (SEQ ID NO: 66)
C34	caveolin-1	U47060	470	tccgaggggcacctctacac cgt (SEQ ID NO: 67)	ttgccaacagcctcaaa gaacgg (SEQ ID NO: 68)
C35	H-ras, p21	U62092	193	accatccagctcatccagaa ccacttc (SEQ ID NO: 69)	tggcaaatacacagag aaagccctccc (SEQ ID NO: 70)
C36	rab2	M35521	514	agacaagaggttcagcca gtgcatga (SEQ ID NO: 71)	gtgtgtggcattagtagc agcgtgctg (SEQ ID NO: 72)
C37	rab5	M35520	521	aagcctagtgtctgtttgtg aaggg (SEQ ID NO: 73)	ttggctgcgtgggttcagt aaggtcta (SEQ ID NO: 74)
C38	rab7	M35522	508	ccccaacacattcaaaacc ctcgata (SEQ ID NO: 75)	tgtgtgtgtcagggtgaa gtgtttgg (SEQ ID NO: 76)
C39	APO CII	M17177	256	ctggttctgtgtgtcctcctg gta (SEQ ID NO: 77)	ggtcagtgaatccct gcgtaagtgc (SEQ ID NO: 78)
C40	endothelin-2	X57038	330	ctgtccgcctctgtccccctgt t (SEQ ID NO: 79)	ggagtagggacaacac ccagccg (SEQ ID NO: 80)
C41	FGFR2	AF211257	498	tgattgttcttctgccaccaa atgcc	taaatacagaacgcac aacacggcgac

ID #	Gene Name	Accession Number	Size of insert	Left PCR primer sequence	Right PCR primer sequence
				(SEQ ID NO: 81)	(SEQ ID NO: 82)
C42	leptin	AB020986	503	gccttaccctcagggaccttg ca (SEQ ID NO: 83)	gcatgaacaaaacagc ctccgcc (SEQ ID NO: 84)
C43	prosta- glandin D synthase	AB026988	510	aggtgtccctgcagcccaac ttc (SEQ ID NO: 85)	gggcggcggtcaccta cttggtc (SEQ ID NO: 86)
C44	paraoxo- nase-2 (PON2)	L48515	472	caggactccacagctttccc cagata (SEQ ID NO: 87)	ggtgaaatattgatcca ttgctgca (SEQ ID NO: 88)
C45	beta- glucuroni- dase	AF019759	493	cgccgtatgtggacgtcatct gtgt (SEQ ID NO: 89)	agacagagggttcaga gggcgaacg (SEQ ID NO: 90)
C46	caveolin-2	AF039223	359	ctccagggtgggcttcgagga cgt (SEQ ID NO: 91)	tggggtccaagtgtcta gtcgtg (SEQ ID NO: 92)
C47	matrix metallo- proteinase- 14	AF032025	350	ttctcaaaggagacaagca ctgggtg (SEQ ID NO: 93)	tagcctggctctacctca gcttctgg (SEQ ID NO: 94)
C48	matrix metallo- proteinase-9	AB006421	471	gattctccaagggaagg acgc (SEQ ID NO: 95)	tcacgtagcccacttcgt ccacc (SEQ ID NO: 96)
C49	IL-8	U10308	498	gtggcccacattgtgaaaac tcagaaa (SEQ ID NO: 97)	gaccaagggaagggtg aaaagggactc (SEQ ID NO: 98)

ID #	Gene Name	Accession Number	Size of insert	Left PCR primer sequence	Right PCR primer sequence
C50	keratinocyte growth factor	U80800	482	caatgacatgactccagag caaatggc (SEQ ID NO: 99)	ttgcataggaagaaag tggtctgtt (SEQ ID NO: 100)
C51	decorin	U83141	505	gattgaaaatggagccttc agggaat (SEQ ID NO: 101)	ataattccaagctggat ggcagagcg (SEQ ID NO: 102)
C52	glucose-6-phosphatase	U91844	508	ctggggatctcagctgcagg atttct (SEQ ID NO: 103)	atccttctctccttgccc tctctc (SEQ ID NO: 104)
C53	TGFB-1	L34956	489	gacccttctgctcctcatgg cc (SEQ ID NO: 105)	cttaaatacagcccggc gcagcg (SEQ ID NO: 106)
C54	ZAP36/ annexin IV	D38223	488	gacacgtcctcatgttcag aggggtg (SEQ ID NO: 107)	ccagatgtgtcaccttg atgaaggag (SEQ ID NO: 108)
C55	N-ras	U62093	224	gttgagacaggtggtgttg gaaaag (SEQ ID NO: 109)	gcaaatacacagagga agccttcgcc (SEQ ID NO: 110)
C56	K-ras	U62094	228	gtagtggagctggtggcgta ggcaa (SEQ ID NO: 111)	ggcaaatacacaaga aagccctccc (SEQ ID NO: 112)
C57	p38 MAPK	AF003597	506	ctggtgacccatctatggga gcagat (SEQ ID NO: 113)	tftgcaaagttcatcttcg gcactcgg (SEQ ID NO: 114)



TABLE 2 TARGET SEQUENCES FOR CANINE ARRAY

ID#	Gene Name	Accession Number	Target Sequence
C1	c-myc	X95367	caagaggacgaagaagaaattgatgtgtttctgtgga aaaaaggcaggcccctgccaaaaggccgaatcgg ggtccccctctgctggaggccacagcaaacctctcac agcccactggtcctaagagatgccatgtgtccacccat cagcacaactacgcggcaccctccaccaggaag gactatcccgcgccaagagggcgaggttgacagt ggtagagtctgaaacagatcagcaacaaccgcaa tgtgccagcccagggtctcgacacggaggagaatg acaagaggcgaacacacaacgtcttgagcgccag aggaggaacgagctgaaacggagcttcttgccctgc gtgatcagatcccggagtggaaaacaatgaaaaggc cccaaggtagtgatccttaaaaaagccaccgcgtac atctgtccgtccaagccgaggagcaaaagctccttc cgaaaaggactgttgcggaagcg  (SEQ ID NO: 115)
C2	c-erb B-2	AB008451	gtgttgatggtgactgggaatgggggcagccaaggg gctgcagagccttccctcacaggacccagccctctcc agcggtagctgaggaccctacggtacccttgccctc gagactgatggttaagggtgccccctgacctgcagccc ccagcctgaatatgtgaaccagccagaagtttgccgc agcccccttgccctagaaggcccttgccctctcc gaccggctggtgccactctgaaaggcccaagactct gtccccaagactctctccctggcaagaatggggtgt caaagacgttttgctttgggagtgtgtggagaatccg gagtacctggcaccggggcagagctgcccctcag cccaccctcctccagcctcagccagccttgacaac ctgtattactgggaccaggatccatcagacggggctc tccaccagcaccttgaagggacccctacagcagag aaccggagtac  (SEQ ID NO: 116)
C3	Catalase	AB012918	gacaaaatgcttcagggtcgtcttttgccctatctgacac tcaccgccaccgcctgggacccaactatctcagatac ctgtgaactgtctttccgggctcgagtggccaactacc aacgggatggcccatgtgcatgctcgacaatcaggg tgggtctcaaattactacccaatagcttagtgcctctg aacaacagcgtgtgtcctagagcatagcagccaatgt tcgccagatgtgcagcgctcaacagtgccaatgaag ataatgtcactcagggtcggaccttctattgaaggctct ggtgaagaggagaggaaacgcctgtgcgagaacatt gctggccatctgaaggacgcacaactttcatccagaa

ID#	Gene Name	Accession Number	Target Sequence
			gaaagcgggtcaagaacttcagtgatgccaccctgact acggggcccgcatcaggctctttggacaaatacaat gctgagaaacctaaagacgcgattcacaccttatgca gcatgg  (SEQ ID NO: 117)
C4	p53	AF060514	acttttcgacacagtggtggtgccttatgagccacccg aggttggtctgactataccaccatccactacaactaca tgttaacagttcctgcatgggagggcatgaaccggcgg cccatcctcactatcatcaccttgaagactccagtgg aaacgtgctgggacgcaacagcttgaggtagcggtt gtgcctgtcccgggagagaccgcccggactgaggagg agaatttcacaagaagggggagcctgtcctgagcc acccccgggagtagcaagcgagcactgcctcccag caccagctcctccccgcaaaagaagaagccacta gatggagaatatttcaccttcagatccgtgggcgtgaa cgctatgagatgttcaggaatctgaatgaagccttgag ctgaaggatgccagagtggaaaggagccagggggg aagcagggctcactccagccacctgaaggcaagaa ggggcaatctacctctcg  (SEQ ID NO: 118)
C5	Metallothionein 2	AB028042	gactccagccgccccttctcgccatggatcccaactgct cctgcgcccgggggggctcctgcacgtgcgcccgtc ctgcaaatgcaaagatgcagatgcacctcctgcaag aagagctgctgctcctgctgcccgtgggctgtgcaa gtgtgccagggtgcatctgcaagggcgcatcggac aagtgcagctgctgtgcctgatgtgggggagagcctatt cctgatgtaaatagagcgacgtgtacaaacctacagtt gtgggggggttttgggtgttttgggttgggtccaactctgac ccgttgcactacattcct  (SEQ ID NO: 119)
C6	Interleukin-2	U28141	tcacagtaacctcaactcctgccacaatgtacaaaatg caactctgtctgcatgcactgacgtgtactgtcgc aaacagtgcacctattactcaagctctacaaaggaaa cagagcaacagatggagcaattactgctggatttacag ttgcttttgatggagttaataattatgagaacccccact ctccaggatgtcacatttaagtttacacgccaagaa ggccacagaatttacacacctcaatgtctagcagaag aactcaaaaacctggaggaagtgtaggttacctcaa agcaaaaacgttcacttgacagacaccaaggaattaa tcagcaatatgaatgaacacttctgaaactaaagggat

ID#	Gene Name	Accession Number	Target Sequence
			ctgaaacaagttacaactgtgaatatgatgacgagaca gcaaccattacagaatttctgaacaaatggattaccttt gtcaaagcatcttctcaacactgac (SEQ ID NO: 120)
C7	Metallothionein 1	D84397	gctctgactctccctgtggtctgcctgggacctccgtcctc gcctcgctcgctcgctcgctcgctgggctcgag atggaccccgactgctcctgtccaccgggtggctcctgc acgtgcgtggctcctgcaaagtcaaggagtgcaaat gcacctcctgcaagaagagttgctgctcctgtgcccc gtgggtgtgccaagtgtgccagggtgcctctgcaa ggggtgcgtcggacaagtgcagctgctgtgcctgatgtg gagaacacctgttctctgatgtatagagcaagcaaca gtacaaacctgcagtttaagcatttttcatatcactct gactgttttctacattcccgttg (SEQ ID NO: 121)
C8	Intercellular adhesion molecule-1	L31625	caagtcagagctggaatttccattccattggctaagct gcttctccagaggaggactggcaatggtgatacagtt tagttggcgacatgccagggacaacccactgagccc catactctccccgtcactgacactgacctctgttagccg tctctctcccatacgcactctgtagtgtcacgatgac atcgctgcatgcctgaacacgaatgaccactcactggc agctaaactgtggagtcccatgaaactgcccaaccct atgtgtccctgcctggctgtttccatctcgggtggcacca tacaaggacacagcactctggcagcccaattcctgc agagacgagggccctgcaggcagttggcagaagag gccggcgaggattcctgtccagctccggaagctctct ctgtagtaataaagctgtctgtggcgctgtctgtgtg agtggaggggaggtgtcatgtccagttgggagttcttcc a (SEQ ID NO: 122)
C9	Multidrug resistant protein-1	AF045016	ggcaaagagataaagcacctgaatgtccagtggctcc gagcacacctgggcatcgtgtctcaggagcccacctg ttgactgcagcattgccgagaacattgcctatggagac aacagccgggtcgtatcacatgaagagattatgcagg cagccaaggaggccaacatacaccactcatcgaga cactccctgagaaataacaccagagtaggagaca aaggaacccagctctctggtggccagaaacagcgcat tgccatagctcgcgctctgttagacagcctcatatttct ttggatgaagctacatcagctctggatacagaaagtga aaagggtgtccaagaagccctggacaaagccagaga

ID#	Gene Name	Accession Number	Target Sequence
			aggccgcacctgcattgtgatcgcccaccgctgtccac catccagaatgcagatttaatagtggtgttcagaatggc aaagtcaaggagcatggcacacatcaacagctgtg gctcagaaaggcatctat (SEQ ID NO: 123)
C10	Beta-actin	AF021873	aagtattctgtgtggatcggaggctccatcctggcctcg gtccacctccagcagatgtggatcagcaagcagga gtacgacgagtcggggccctccatcgccatcgcaaat gcttctagatcgactgcgagcagatgcgtagcatttgct gcatgagtgaaattccgaagtataaattggccctggcaa atggctagcctcatgaaactggaataagcgcttgaaa agaaattgtcctgaagctngtatctgatatacagcant ggattgtagaactgttgctgatctgacnttgatccaagt taactgtcccttggtatgtttaataccgcctattccagg attcttagaggctggcaagagtctgaaccagttgtatt tctgtctgccggtctaacaggggtgggaagggtccgagc ctaggacccacttctgtcttaccatgtttctctgcca gaacaccgtgggtggttaattgcctgaagtg (SEQ ID NO: 124)
C11	Tumor necrosis factor-alpha	S74068	caaattgcctccaactaatcagccctctgccagaca gtcaaatcatcttctgaaccccaagtgaagccagt agctcatgttagcaaaccggaagctgaggggcag ctccagtggctgagccgacgtgccaatgacctctggc caatgacgtggagctgacagacaaccagctgatagtg ccgtcagatgggtgtacctgatagctccaggtcctct tcaagggccaagggtgcccttcacccatgtgtcctc acccacaccatcagccgcttcgccgtctctaccagac aaagggtcaacctactctctgccatcaagagccctggc aaaggggagacccagaggggaccgaggccaagcc ctggtacgagcccatctacctgggaggggtcttcaact ggagaagggtgatcgactcagcgctgagatcaatctg cctaactatctggacttggcagctctgggcaggtctact tgggatcattgccctgt (SEQ ID NO: 125)
C12	Nitric oxide synthase-1, inducible	AF077821	gtcctgcatcctcattggacctggcacaggcatcgccc cctccgcagtttctggcagcagcggtccatgacatca agcacaagggtccggggcagccgatgacctgtg tggttggtgccgcccagatgaggaccacctgtatc gggaggagatgttgagatggccagagtgggggtgct gcatgagggtcacacagcctattctgcctgctggcc

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			<p>agcccaaggtctatgttcaagacatcctgcggcagcag  ctggccagccaggtgctccgcatgctccatgaggagc  agggccacctttatgtctgtgggatgtgctatggccc  gggatgtggccataccctgaagcacctgggtggctgcc  aagctgagcctgagtgaagagcaagttgaggactatt  ttccagcttaagagccagaagcgctatcatgaagatat  cttgggtgctgtgttccctatgaggtgaaaaagatggt  gcagcaaacacgc</p> <p>(SEQ ID NO: 126)</p>
C13	BRCA1	U50709	<p>tttctgggtattgcaggaggaaaatgggtagtttagctatt  ctgggaacccagtcattaaagaaagaaagatactag  atgagcatgattttgaagtcagaggagatgtgtgaatg  gaagaaatcaccagggtccgaagcgagcaagagaa  tcccaggacagagaatccaagacagaaagatcttc  aggggcctagaaatctgtgtatggaccctttaccaac  atgccacagatcaattagagtggatggtgcacctctgt  ggggcttctgtggtgaaggagccttcgttaccctca  gcaagggcactcatccagtggtagtctgcagccgga  cgcttgacagaggacagtggcttccatgcgattggg  cagatgtgtgaggcacctgtggtgacccgagagtgggt  actggacagtgtagccctctaccagtgccaggagctgg  acacctacctgatcccgagattccagaaactgtgtgca  gact</p> <p>(SEQ ID NO: 127)</p>
C14	Metallothionein-IV	AB028041	<p>ctgtgacagcattggagcttctggacacctggacatgg  acccgggggaatgcacctgcattgtctggaggaatctgt  atctgtggagacaattgcaaattgacaacctgcaactgt  aaaacatgtcgaaaaagctgctgcttctgctgcccc  cggctgtgccaagtgtgccagggtgcattctgcaaag  gaggctcggacaagtgcagctgctgtgctgaaccgc  atccgtggtgctgggctggcggggcggggtgtgtg  atgccacagccccggaatgtctgtacagtgcataggt  gagaaactgaaattattgtaccataggttatgcttttatat  attgctcagagggtggtggtgacactcatgtaaa</p> <p>(SEQ ID NO: 128)</p>
C15	Tumor necrosis factor receptor	AF013955	<p>ggctctgtgttgaaatatacccataagcgttactgca  ctgttctcaccgccgaacagggtgaagagagctatt  ctgtgtccccagggaataatattcacctcaagacgat  tccattgtctgtacgaagtgccacaaaggacctacctg  tacaatgactgtccaggccagggtggacacagact</p>

ID#	Gene Name	Accession Number	Target Sequence
			gcaggggaatgtgaaaacggaacttttacagcttcagag aaccacctcagacaatgtcttagctgctcaaagtcg aaaagaaatgaaccagggtggagatttctctgtactgt gtaccgggacacgggtgtgtggctgcaggaagaacca gtaccgggtttattggagtgaacccctttccagtgcata actgcagcctctgcctcaatggcacgggtgcagatctct gccaagagaagcagaacaccatatgcacctgccacg cggggtcttctaagagagcatgaatgcgtctctgtgtg aactg  (SEQ ID NO: 129)
C16	c-kit	AF099030	gagacttggctgctagaaatcctccttactcatggtcg aatcacaagatttgatgttttgcttagccagagacatc aagaatgattctaattatgtgtcaaaggaaacgctcg gctacctgtgaagtggatggcccctgagagcatttcaa ctgtgtgtacacattgaaagtgtgtctgtctatggga ttttctgtgggagctcttctttaggaagcagcccctacc ctgggatgccagtcgattcaaagtctacaagatgatca aggaaggcttccggatgctcagccctgagcatgcacct gctgaaatgtatgacatcatgaagacgtgctgggatgct gatcccctgaaaaggccgacgtccaagcagatcgtgc agctaattgagaagcagattcagatagcaccaatcat atttattccaacctcggaactgcagcccaaccaga gcgccccgtggaggaccattccgtgcggatcaatt  (SEQ ID NO: 130)
C17	CD40 ligand	AF086711	ccaatttgaagcctttctcaaggagataatgctaaacaa cgaaatgaagaaagaagaaaacattgcaatgcaaaa aaggatgatcaggatcctcgaattgcagcccatgtcata agtgaggctagtagtaaccagcgctccgttctgcggtg ggcgccaaaagggtactacaccataagcagcaacct ggtgagcctcgagaatgggaacagttggcgtgaaa agacaaggactctattacgtctatgcccaagtcaccttct gctccaatcgggcagcttcgagtcagctccgttcgtcg ccagcctatgcctcattccccgagtggaacggagag agtcttactccgcccgcgagctcccgcggtcgtcca aaccttgcggccaacagtcacactgggaggagta ttgaattgcatccagggtgctcggtgttcgtcaacgtgac tgatccaagccaagttagccacgggaccgggttcacg tcttttgcttactc  (SEQ ID NO: 131)

ID#	Gene Name	Accession Number	Target Sequence
C18	Cubilin	AF137068	tgaatgcacacatgacttcttgaggtaagaaatggaa gtgatagcagttcaccattatttggcacatactgtggaac tctgttgccagatcctatcttctcgaacaacaaactat acctacggtttaagaccgatagcgcaactccaatcgtg ggtatgaaattgtctggacctcatcaccctctggctgtg tggaaacctttatggagacagtggctcctcaccagccc cggctatcccggcacttaccacaacaactgactgtg aatgggcatcatcgctcctgctggaagacctgtcacc gtacacctttactttatcagcatcgatgacccggagactg tgtccagaactatctcactctacgatggaccggatgct aattctccatccttggaccatactgtggggcagacacc aacatagctcccttggcctctcacatcggtcttcata aaatttcacgcagagtatgcagtgtatccatca  (SEQ ID NO: 132)
C19	Alkaline phosphatase	AF149417	cagatgtggagtatgagatggacgagaagtccaggg gcacgaggctggatggcctgaacctcatcgacatctgg aagaactcaaaccgagacacaagcactctcactacg tctggaaccgcacggaactcctggccctcgaccctac accgtggactacctcttgggtctctttagccgggggac atgcagtacgagctgaacaggaacaacgtgactgac ccgtcactctccgagatgggtgaaatagccatcaagat tctgagcaagaacccagaggcttcttctgtgtgtgga aggaggcaggattgaccacgggcatcacgagggca aggccaaagcaggcgctgcacgaggcagtgagatg gaccgggcaattgggaaggcaggcgatgacctct tggaaagacacgctgaccgtcgtcactgaggaccactc ccacgtctcaccttggcgggtacacccccggggga actctatcttgggtct  (SEQ ID NO: 133)
C20	Pancreatic lipase	M35302	actcagagagcatcctcaaccctgatggattgcttcta cccctgtgcttctacaggcccttgaatctaacaagtgc tccccctgccagatcaaggggtcccacagatgggtca ctatgctgataaattgctgtcaagacaagtgtgagac acagaaatactcctgaacaccggagattccagcaatt ttgctcgtgagatagcgggtttctataacattgctggg aaaagagccactggctaggctaaagtgtgttggga agtaagggaataactcatcaattcaatatctcaagggg attctcaaaccaggctctactcattcaatgagttgatgc aaagcttgatgttgaacaattgagaaagtcaagttctt tggataacaacgtggtaaacccaaccttcccaaagt ggggtgcagccaagatcacctgtcaaaaggagagg

ID#	Gene Name	Accession Number	Target Sequence
			agaaaacagtgcacagctctg (SEQ ID NO: 134)
C21	Apolipoprotein CIII	M17178	agccctggaggaagaggacccctccctcctgggcctt atgcagggttacatgcagcagccaccaagacggcc caggacacgctgaccagcgttcaggagtcccagggtg cgagcgggcccaggggctggatgaccgatagcttca gttcctgaaagactactgcagcaggttaagggaag ttcactgggttctgggattcagcctctgaggccaaacca actccagcctctg (SEQ ID NO: 135)
C22	Interleukin-4	AF054833	tcacctccaactgattccaactctggtctgcttactagc actcaccagcacctttgtccacggacataacttcaatatt actattaaagagatcatcaaaatgttgaacatcctcaca gcgagaaaacgactcgtgcatggagctgactgtcaagg acgtcttactgctccaaagaacacaagcgataagga aatctctgcagagctgctactgtactgcggcagatctat acacacaactgctccaacagatatctcagaggactcta caggaaacctcagcagcatggcaacaagac (SEQ ID NO: 136)
C23	Tissue inhibitor of metalloproteinase s-1	AF077817	cttgtcaactccaaatcgtcatcaggggccaagttcgt ggggaccgcagaagtcaaccagaccgacttaaacgc gcgttatgagatcaagatgaccaagatgttcaagggtt cagcgccttgggaatgcctcgacatccgcttcgtcg acacccccgcccggaaagcgtctgcggatacttgca cagggtcccagaaccgcagcaggaggtttctggtcgcc ggaaacctgcgggacggacactgcagatcaacacct gcagtttcgtggcccgtggagcagcctgagtaccgt cagcgccggggcttcaccaagacctatgctgctggctg tgaggggtgcacagtgttacctgttcatccatcccctgc aaactgcagagtgacactcactgcttgtagcgacc acttctcacaggctctgacaagggttccagagccgc cacctggcctgctgccaagagagccagggatgtgca c (SEQ ID NO: 137)



ID#	Gene Name	Accession Number	Target Sequence
C24	Ubiquitin	AB032025	gcagattttgtaaagaccctgacgggcaaaactatca cccttgaggctgagcccagtgacaccattgaaaatgtc aaagccaaaatccaagacaaggaggggcatcccgct gaccagcagcgtctgattttgcgggcaaacagctaga agatggccgaactctgtcagactacaatatccagaaa gagtcacacttgcacttgggtctcgctgcgagggtggc atcattgagccttactccgccagctggccagaaaata caactgcgacaagatgatctgccgaagtgttatgtc gcctgcacccccgtgtgtcaactgcgcaagaagaa gt  (SEQ ID NO: 138)
C25	Matrix metalloproteinase -2	AF095638	agcggtcagtgtgaaggagggtggactctgggaatgac atctacggcaaccccatcaagcggattcagtatgagat caagcagataaagatgttcaaaggaccagacaagga catagagttatctacacggctccttcccgccgtatgc ggggctccctggacatcggaggaaagaaggagatc tcattgcggaaggccgagggggaacggcaagatgc acatcaccccttgacttcacgtgcctgggaca  (SEQ ID NO: 139)
C26	Interleukin-6	U12234	cctggtccagatgctaagagcaaggtaaagaatcag gatgaagtgaccactcctgaccaaccacagacgcc agcctgcaggctatctgcagtcgcaggatgagtcgt gaagcacacaacaattcacctcatcctgcggagtctgg aggattcctgcagtcagtcgagggtgttcggataat gtagcctgggcatctaagattgctgtagtcatgggcatt ccttctccagtcagaaacctgtgcagtgggcaca cctatgtgttctctgtgaggaaactaaaagtatgagcgta ggacactattttaattattttaattatgataattaaatgt gatatggagtttaattatataagtaatagatattatatttt atgaagtgccacttgaaatattttatgtattcatttgaaaa agttaacgtaaaatgctatgcggctgaatacctcgatg ttcggagccagg  (SEQ ID NO: 140)
C27	Vascular cell adhesion molecule 1 (VCAM-1)	U32086	tggaattgaacccaaacaaaggcagagtacacaga cactttatgttaatgtgccccagggatacaaccgtcgt ggcagcccctcctccatcgtgagggaaggtagtcctgt gaacatgacctgcttagcgatggcctccagctccga acatcctgtggagcaggcggctaagtaatgggcgcct gcagtccttctgaggatccaatttcacctaacttctgc aaaaatggaagattctggtattatgtgtgaagggatt

ID#	Gene Name	Accession Number	Target Sequence
			aaccaggctggaataagcagaaaaagaagtagaatta attatccaagttgctccgaaagacatacagcttatagctt ttccttctgagagtgtcaaggaaggagacactgtcattat ctcctgtacatgtggaaatgttccaaaaacttgataatc ctgaagaaaaaagcagagacgggagacacagtgct aaagtcagagatgggtcatataccatccacaaggtc cagttagaggatgcggg  (SEQ ID NO: 141)
C28	Phenol sulfotransferase	D29807	gtcccccagacctgttgatcagaagggtcaagggtg tctacgtcgccgcaacgaaaaagatgtagctgtctct attaccacttctaccgatggccaagggtgcaccctgac cctgacacctgggacagcttctggagaagttcatggct ggggaagtgtcctatgggtctgtatcagcatgtgcag gaatgggtgggagctgagtcacactcaccctgttctac cttctatgaggacatgaaagagaaccccaaaagg agattcagaagatcctgaagttgtggggcgctccctgc cagaggagactgtgatctcattgtccagcacacgtctt tcaaggagatgaagaacaactccatggctaactacac caccttatctcctgacatcatggaccacagcatttctgcc ttcatgaggaaaggcatctcggggactggaagacca ccttactgtggcccagaatgagcgctttgatgc  (SEQ ID NO: 142)
C29	GRP94	U01153	aatcccagacatcccctgatcaaaagacatgctgac gagttaaggaagatgaagatgacaaaacggtatcgg atcttgctgtggtttgttgagacagcaacgctgagatca ggctatctgctaccagacactaaagcatatggagatcg aatagaaagaatgcttcgcctcagtttaaacttgaccc tgatgcaaagggtgaagaagaaccagaagaagaac ccgaagagacaaccgaggacaccacagaagacac agagcaggacgatgaagaagaatggatgcaggaa cagacgacgaagaacaagaacagtaagaaatct acagctgaaaaagatgaattataaattatacttcacca tttgaacctgtgtggagagggaatgtgaaatttaagtc atttcttcgagagagactgttttgatgctccccgcagc ccccttcccctgcactgtaaaatgttgggattgtgggtc acagaaagaagt  (SEQ ID NO: 143)

ID#	Gene Name	Accession Number	Target Sequence
C30	E-selectin	L23087	ttacacggttgctgtcactggatgaataattgccagg agtttaggggaacaacttgggtcaaagtattctatcacc aacatgcaaaaaaaaaatatttaaagtcacacaggcgagt acatggggaaatcctgcttaatactttgtcaaggattgc taaacacagtcctaatacccttttaccctgtgggattcagt gcattttaaaagtgttcttagagattttaagtgcttttatttg cattggctaaagtacaattttccctaattcttaattcagtg aagtgtttagagactttaaaatatatgcatgttagagctat gatagggtaaaagttactatcagggatcttgtttatgaa gggactctaattgtatatctgtagtaaattcattttaaaag gggcaaatgctgtcccagattacgtgaatcagtgtaa agttgtgaatgttttactatagttgctttaaaaacatgaat agtggggcacctgggtg  (SEQ ID NO: 144)
C31	gastric lipase	Y13899	tgcactatcatcagagcatgcctccctactacaacctga cagacatgcatgtgccaatcgcagtggtgaacgggtgg caacgacttgctggccgacccacagatgttgacctttg cttccaagctcccaatctcatttaccacaggaagattc ctctacaatcacitggactttatctgggccatggatgcc cctcaagcggtttacaatgaaattgttccatgatgggaa cagataataagtagttctagatttaaggaattattctttatt gttccaaaaatacgttcttctcacacgltggtttctatcatg tttagacacgggtgattgttccatggtttgatttcagaaa tgtgttagcatcaacaatcttccattggtaattttgaattta aatgatttttaatttggggcatctgggtggctcagtcg gctaagtcgtctgcctcggcttaagtcagatctcgggg tctaggatgga  (SEQ ID NO: 145)
C32	HSP27	U19368	ggaccctttccgcgactgggtaccgggcccacagccgc ctcttcgaccaggccttcgggctgccccggctgccgga ggagtggggcgagtggttcggccacagcggtggtcc gggctacgtgcgcccgatcccccccgcggtcgaggggc cccgccgcggccgcccgggcccgcgcgcgcctac agccgcgcgctcagccggcagctcagcagcggcgtg tcggagatccggcagacggccgaccgctggcgcggtg ccctggacgtcaaccacttcgccccgaggagctgac ggtaagacgaaggacggcggtggtggagataactgg caagcacgaagagaggcaggatgagcatggctacat ctcccgccgcctcactcccaatacacccgtccccctg gtgtggatcctaccctggctcctcctcctgtccccctgag ggcactctcaggtggaggctcccatgcccaagccag

ID#	Gene Name	Accession Number	Target Sequence
			ccacccagtcggcagaaatca (SEQ ID NO: 146)
C33	IL-10	U33843	cggtccctgctggaggactttaagagttacctgggtg ccaagccctgtcggagatgatccagtttacttgaggga ggtgatgccccgggctgagaaccacgaccagacat caagaaccacgtgaactccctgggagagaagctcaa gacctcaggctgagactgaggctgcgacgctgtcac cgatttctccctgtgagaataagagcaaggcggtga gcaggtgaagagcgcattagtaagctccaggagaaa ggtgtctacaaagccatgagtgtgacatctcatca actacatagaaacctacatgacaatgaggatgaaaat ctgaaacgtgctggagaacaaaacaccaggtggc aactcttcgactctaggacatgaattggagatctgca aaataccatcccagatgtaggagagccgaccaact gcttggaaccccgatcacc (SEQ ID NO: 147)
C34	caveolin-1	U47060	tccgaggggacacctacacccgttccatccgggagc agggcaacatctacaagcccaacaagaagccatgg cggaggagatgagcgagaagcaggtgtacgacgcg cacaccaaggaaatcgacctggtaaccgcgacccc aagcatctcaacgacgacgtggtcaagattgattgaa gatgtgattgcagaaccagaaggaacacacagtttga tggcatctggaaggccagctcaccacctcactgtgac aaaatactggtttaccgctgtgtgtccctcttggcat cccaatggcactcatatggggcatttacttgcattcttc ttctgcacatctgggcagttgtgccgtgcattaagagtt tctgattgagattcagtgatcagccgtgtctattccatct acgtccacaccttctgtgaccggtcttgaggctgttggc aa (SEQ ID NO: 148)
C35	H-ras, p21	U62092	accatccagctcatccagaaccacttcgtggatgagta cgacccaccatcgaggactcctatcggaagcaagtg gtcattgacggggagacgtgctgtggacatcctgga cacagcgggcccaggaggagtacagcgccatgcggg accagtacatgcgcacgggggagggttctctgtgtat ttgcca (SEQ ID NO: 149)

ID#	Gene Name	Accession Number	Target Sequence
C36	rab2	M35521	<p>agacaagagggttcagccagtgcatgacctgactatcg  gtgtagagtttggtgctcgaatgataactattgatggaa  acagataaaacttcagatatgggatacggcagggcaa  gagtccttcgttccatcacaaaggtcatattacagagggtg  cagcaggggctttactagtgatgatattacaaggaga  gatacattcaaccacttgacaacctggttagaagatgc  ccgccagcattccaattccaacatggcattatgcttattg  gaaataaaagtgattagaatcaagaagagaagtaa  aaaaagaagaagggtgaagctttgcacgagaacatg  gacttatctcatggaaactctgctaagactgcttccaat  gtagaagaggcatttattaatacagcaaaagaaatttat  gagaaaatccaagaaggagctttgacattaataatga  ggcaaacggcattaaaattggccctcagcacgctgcta  ctaatgccacacac</p> <p>(SEQ ID NO: 150)</p>
C37	rab5	M35520	<p>aagcctagtgcctcgtttgtgaagggccaattcatgaat  ttcaagagagtaccataggggctctttctaaccctaaa  ctgtgtgcttgatgatacaacagtaaaagttgaaatatg  ggatacagctggtaagaacgataccatagcttagca  ccaatgtactacagaggagcacaagcagccatagttg  tatatgatatcacaatgaggagtccttgccagagcca  aaaactgggttaaagaacttcagaggcaagccagtcc  taacattgtaatagctttatcaggaacaaggtgatctt  gcaataaaaagagctgtcgtattccaggaagcacagt  cctatgcagatgacaacagtttattatcatggagacatc  agctaaaacatcgatgaacgtaaatgaaatattcatgg  caatagctaaaaagttgccaaagaacgaaccacaga  atccaggagcaaatctgccagaggaagaggagtag  accttactgaaccacgcagccaa</p> <p>(SEQ ID NO: 151)</p>
C38	rab7	M35522	<p>ccccaacacattcaaaaccctcgatagctggagagat  gagtttctcatccaggccagtcctcggtatcctgaaaa  cttcccttcgttggtgggaaacaagattgacctcgaa  aacagacaagtggccacaaagcgggcacaggcctg  gtgctacagcaaaaaacaattccctacttcgagacca  gtgccaaggaggccatcaatgtggagcaggcgttcca  gacgattgcaaggaatgcacttaaacaggaaacaga  gggtggagctgtacaatgaattccctgaacctatcaaac  tggaacaagaacgaccgggccaagacctcagcggaa  agctgcagttgctgaaggggcagtgagagcagagca  cagagtccttcacaaacaaagaacacacttaggccttc  caacacgagcccccttcttcttccaacaaaaacata</p>

ID#	Gene Name	Accession Number	Target Sequence
			aagtcattctcgaatccagctgccaaaagaccctacc aaacacttcaccctgacacacaca (SEQ ID NO: 152)
C39	APO CII	M17177	ctggttctgttgcctcctggattgggatttgaggctc agggggcccatgagtcacagcaagatgaaaccacca gctccgcccgtctcaccagatgcaggaatcactctac agttactggggcacagccagatcggtgccgaggacc tgtacaagaaggcatacccaactaccatggatgagaa aatcaggacatatacagcaaaagcacagcagctgt ggcacttacgcagggtttcactgacc (SEQ ID NO: 153)
C40	endothelin-2	X57038	ctgtccgcctctgtccccctgttgcgcacgcaggcaagg gccagggtggccgtgcccggagcatccagcaccctc agcccggggccgaggctccacctgcggcctcggcgt tgctcctgcagctcctggctcgacaaggagtgcgtctac ttctgccacctggacatcatctgggtgaacactccggg tgagctcccgcgggggaccaggcggggctgtagag gcggggcagggggtggggaacctgtagctagcacag ctctccctggcctccagacggatcgctgagctgacat gaagagcggctgggtgtgtccctactcc (SEQ ID NO: 154)
C41	FGFR2	AF211257	tgattgttctctgccaccaaagtccagtagtaacaa acccatcgataggaaagtattttgttctgtgcagctct gtcattgggcccattggagcgcggaactggactcccaa gacaaatggtaccagcgttctctaaaaagatgccttaa tccattcctcgagggtggaccttagttgagatgatagca gactgtactcccctccggcagctggccttctgcctgagt tgcacgttaatacagattagcctgtattctctcagtggattt gataatggcttcagattcattggcgttagggaagccttt agaatttcacgtgtcatcgtcgaaattgaaacactgag ttgttctgctgatggtttggagatactccatcttttaagg ttgcttctgtctaattctggcaggacctaccaaagatc gggcctcgtagcaacgtcagacacgatgtcgccgtgtt gtgcgttctgtattta (SEQ ID NO: 155)

ID#	Gene Name	Accession Number	Target Sequence
C42	leptin	AB020986	<p>gccttaccctcagggacctgcattccagatggtaaaaa  tgccacacaccagtatgcaaaggctggcctcgacca  tggcaactgagcagctgaaccagcgactcctcagca  ggcggaaatgctgaactgagaatgicagtgtcaggg  gccacaggctaaccctgctcccacttcgtagcattttg  ctttcagggcacggcagcatttattactgtgtagccaca  tccctctgaagcagcagcatagctgacaatttaaaat  aagaactaagaacatacctaagaccataacggcaga  caagtagcagggccgagactagagttcaggaccttg  actccagagtggtccgggagccaggtaatgctccctg  gaggtgcaaataagggtgggaggggagaccagaa  gtgcttacaggagagaggactggaggtgattttgca  ggaggtgagggatgtgaattgcctgaatggcggaggg  tgttttgtcatgc</p> <p>(SEQ ID NO: 156)</p>
C43	prostaglandin D synthase	AB026988	<p>agggtgccctgcagcccaactccaacaggataagttc  ctggggcgctggtcacctcgggctcgctccaactcg  agctggttccgggagaagaagaacgtgctgtccatgtg  tatgtcagtggtggccccgaccgcagacggaggcctc  aacctcacctccaccttctcaggaagaccagtgta  gactcgaaccctgctctacggccggcggaaccccg  ggctgctacagctacacgagtccccactggggcagta  cccacgacgtgtgggtgtagccaccaactacgagga  gtacgcgttctctacaccgcaggcagcaaaggcctc  ggccaggacttccacatggcactctctacagccgcac  ccagaccccaaaggccgagataaaggagaaattca  gcacctttgccaagaccagggttcacagaggatgc  cattgtcttctgccacagactgataaatgcatggagga  gaacaagtaggtgaccgccgcc</p> <p>(SEQ ID NO: 157)</p>
C44	paraoxonase2 (PON2)	L48515	<p>caggactccacagcttttcccagataagcctggaggg  atattaatgatggatctaaaaaaggaaaacccgaggg  cactggaattaagaatcagccgtgggtcaattggcttc  gttcaatccacatggtatcagcacctcatagacagcga  cgacacagtttatctttgtgtaaacatccagaattca  agaatacagtggaatttttaattgaagaagaagaa  aattcttctgcatctaaaacaatcaaatgaacttc  ttccaagtgtgaatgatcatagctgttgaccagcac  atttctatgcccaatgaccactatttctgtatcctttt  aaagtatttgaaacatactgaactacactgggcaaa  tgtttgttactacagtccagatgaagttaaagtggtagca</p>

ID#	Gene Name	Accession Number	Target Sequence
			gaaggggttgatgcagcaaatgggatcaatattcacc (SEQ ID NO: 158)
C45	beta-glucuronidase	AF019759	cgccgtatgtggacgtcatctgtgtcaacagttactactct tggtatcacgactatgggcacatggaggtgattcagctg cagctggccaccgagtttgagaactggtataggaccta ccagaaaccaataatccagagcgagtacggggcag agacaattgcaggctccaccaggatccacctctgatgt tcagtgaggagtaccagaaaggctgctcgagcagtat cacttggtgctggtatcagaaacgcaaagaatatgtggtt ggagagctcatctggaattttgctgattttatgactgacca gtcaccacagagagcagtagggaacagaaaggcca tctcactcgccagagacaacccaaagcggcgccctt cctttgcgagagaggtactggaaactgccaatgaaa ccgggcaccaccggtccgcgccaagtcccagtggtt ggaaaacagcccgttcgcccctgaaagcctctgtct (SEQ ID NO: 159)
C46	caveolin-2	AF039223	ctccaggtgggcttcgaggacgtgatcgcgacgccgt gtctacgcactccttgacaaagtgtggatttcagccat gccctgtttgaggtcagcaagtacgtgatctacaagttc ctgacgttgctcctggcgatgccatggccttcgcgga gggggttctctcgccaccctcagctgcctgcacatctgg attataatgccttcgtgaagacctgcctcatggtcctgcc ttcgggtcagaccatatggaagagtgaacagatgctgt cattgccccgtgtgtcaagtgtaggacgcagcttctctt ctgtcagctgcaagtgaagtcacgactgagcacttgga cccca (SEQ ID NO: 160)
C47	matrix metalloproteinase -14	AF032025	ttctcaaaggagacaagcactgggtgttgatgaagctt ctctggaacctggctaccccaagcacatcaaggagct gggccgaggactgcctactgacaaaatcgatgctgctc tcttctggatgccaatggaagacctacttctccgggg aaacaagtattaccgtttcaacgaggaactcaggcca gtggacagcgagtaccccaaaaacatcaaggctctgg gaaggaatccctgagtctccagaggggtcattcatggg cagtgtgaagtcttacttacttacaaggggaacaa atactggaaattcaacaaccagaagctgaaggtagag ccaggcta



ID#	Gene Name	Accession Number	Target Sequence
			(SEQ ID NO: 161)
C48	matrix metalloproteinase -9	AB006421	<p>gattctccaagggcaagggacgcccgggtgcagggcc  ccttctatcaccgagcacgtggcctgcgctgccccga  agctggactccgccttgaggacgggctaccaagaa  gactttcttctctggtgccaagtgtgggtgtacaca  ggcacgtcgggtgtagggccgagggcgttgacaag  ctgggcctgggcccggagggtaccaagtcacggcg  ccctcccgcaagcgggggtaagggtgctgtgtcagc  aggcagcgcttctggagtttcgacgtgaagacgcaga  ccgtggatcccaggagcgccggctcgggtggaacagat  gtaccccggggtgccctgaacacgcacatgacatctcc  agtaccaagagaaagcctacttctgccaggaccgctc  tactggcgtgtgaattctcggaatgaggtgaaccagggtg  gacgaagtgggtacgtga</p> <p>(SEQ ID NO: 162)</p>
C49	IL-8	U10308	<p>gtggccacattgtgaaaactcagaaatcattgtaaag  ctttcaatggaaatgaggtgtgcctggacccaagga  aaaatgggtacaaaagggtgtgcagatatttctaaaga  aggctgagaaacaagatccgtgaaacaacaacac  attctctgtggttccaagaattcctcaggaaagatgcca  atgagacttcaaaaaatctatttcagtacttcatgtccc  gtgtagacctggtgtaggattgccagataaaaaatacag  tatgccagttagattgaatattaagtaaaacaatgaat  agtttttctaaagtctcatatgttgccctattcaatgtct  aggcacactacattaacatattattcattgttgcgtgtaa  attcaaatgtagctggaaatcctggatatatttgtgtgtt  acatctttccacctcacctacaggccaggatgcatgagt  ccctttcaaccttgccctggtc (SEQ ID NO: 163)</p>
C50	keratinocyte growth factor	U80800	<p>caatgacatgactccagagcaaattggctacaaatgtg  aactgttccagccctgagcgacatacaagaagtatga  ttacatggaaggaggggatataagagtgaagaagactc  ttctgtcgaacacagtggtatctgaggattgataaacga  ggcaaagtcaaagggacccaagagatgaagaaca  gttacaatatcatggaaatcaggacagtggcagttgga  atagtggcaatcaaagggtggaaagtgaatattatctt  gcaatgaataaggaaggaaagctctatgcaaaagaaa  gaatgcaatgaagattgcaactcaagaattaattctg  gaaaaccattacaacacatgcatcagctaaatgga  cacacagcggaggagaaatgtttgttctttaaataaaa  agggggtcctgtaagggggaaaaaacgaagaaa</p>

ID#	Gene Name	Accession Number	Target Sequence
			gaacaaaaaacagcccacttctcctatggcaa (SEQ ID NO: 164)
C51	decorin	U83141	gattgaaaatggagcctccaggggaatgaagaagctc cctatatccgcattgctgataccaataactaccatccc tcaaggctctcctccttactgaattacatctgaagg caacaaaatcaccaagggtgatgcatctagcctgaaa ggactgaataattggctaagttgggactgagtttaaca gcatctccgctgttgacaatggcactctagccaacactc ctcatctgaggagcttcacttggaacaataagctc atcagagtacccgggtggctggcggagcataagtaca tccagggtgtctacctcataacaacaatatatctgcagtc ggatctaatagactctgcccacctggatacaacaccaa aaaggctcttattcagggtgtgagcctttcagcaacca gtgcagtactgggagatccagccatccaccttcgggtgt gtctacgtgcgctctgccatccagctggaaattat (SEQ ID NO: 165)
C52	glucose-6-phosphatase	U91844	ctggggatctcagctgcaggattttctacctgtccatcct tacaagaaaagggaaaggagcagtggcatttgatag agaagaagaatggattaaggaaagacttctcgtatcc tgcatatcatgcaaattcatgttacacaaaatctaaatcg ctttgattatattgaatttttaggaaggaaactcctaagt gggggaccaactaaagcataactaataaggtagttaat ggggtaattctgcttctctatgtttctactatgtattcagtg cctagattgtgctgggtcagagcattcagatatagtcag cttctctatcacactacatcttctcctgtcagcctagctc agctttccctagaacttccactgctctacatcgtgctgac acagagatgcctaaaggcagctctagggtagtgcttttg tatggtttagtaagctctgaaatctgggcaaaaagggt gaggagagggcaaggagaggaaaggat (SEQ ID NO: 166)
C53	TGFB1	L34956	gacccttctgctcctcatggccacccactggagagg gccagcacctgcacagctcccggcagcgccggggcc ctggacaccaactactgcttcagctccacggagaaga actgctgctccggcagctctacattgacttccgaagg atctgggctggaagtggatccatgagcccaagggttac cacgctaacttctgctggggccctgccctacatttgg agcctggacacgcagtacgaaggctctggccctgt acaaccagcacaacccgggcgctcgccggcgccg tgctgcgtgccgcaggcgctggagccactgccatcgt

ID#	Gene Name	Accession Number	Target Sequence
			gtactacgtgggcccgaagcccaaggtggagcagct gtcgaacatgatcgtgcgctcctgcaagtcagctgag gccccgccccgtccggcaggccccgccaccggcag gnccggccccgccccgcccgtgcgcccgggctgtat ttaag  (SEQ ID NO: 167)
C54	ZAP36/annexin IV	D38223	gacacgtccttcattgtccagagggtgctggtgctgctg cgcccggtggcagggtgaaggaaatttctggacgat gctctcatgagacaggatgctcaggacctgtatgaggc tgagagaagaaatggggaacagatgaggtgaaatt tctgactgttctgctcccgaaccgaaatcacctgttg catgtgttgatgaatacaaaaggatatcacagaagga tattgagcagggtattaaatctgaaacatccggtagctt gaagatgctctgctggccatagtaaagtcatgaggaa caaatctgcatacttctgtaaaggctttataatctatga agggcttgggaacagatgataacaccctcatcagggt atggtgtctcgagcggagatcgatatgatggacatccg ggagagctcaagaggcttacggaagtctctgtactc cttcatcaagggtgacacatctgg  (SEQ ID NO: 168)
C55	N-ras	U62093	gttgagcagggtggtgtgggaaaagcgactgacaa tccagctaattcagaaccactttagatgaatatgatc ccaccatagaggattctaccgaaaacagggtggtata gacggtgaaacctgtctgttgacatactggatacagct ggtcaagaagagtacagtgcctagagagaccaatac atgaggacaggcgaaggcttcctctgtgtattgc  (SEQ ID NO: 169)
C56	K-ras	U62094	gtagttggagctggtggcgtaggcaagagtgcttgac gatacagctaattcagaatcacttggatgaatatgat cctacaatagaggattctacaggaaacaagtagtaat tgatggagaaacctgtcttggatattctgacacagc aggtcaagaggagtacagtgaatgaggaccagta catgaggactggggagggtcttctgtgtattgcc  (SEQ ID NO: 170)

ID#	Gene Name	Accession Number	Target Sequence
C57	p38 MAPK	AF003597	ctggtgacccatcttatgggagcagatctgaacaacatt gtgaaatgtcagaagcttacggatgaccatgttcagttc cttatctaccaaattctccgaggtctcaagtatatacattc agctgacataattcacagggacctaaaacctagcaat ctagctgtgaatgaagactgtgagctgaagatcctgga ctttggactggcccgacatacagatgatgaaatgacag gctatgtggctaccaggtggtacagggctcctgagata atgctgaactggatgcattacaaccagacagttgatattt ggtcagtgggatgcataatggccgaactgttgactgga agaacgtgtttcctggtacagaccatattgatcagttga agctcattttaagactcgttgaaccccaggggctgatc tttgaagaaaatctcctcagagtctgaagaaactaca ttcagtccttgaccagatgccgaagatgaactttgcaa a  (SEQ ID NO: 171)

**TABLE 3 50-mer target sequence for canine arrays**

<b>ID#</b>	<b>Gene Name</b>	<b>GenBank Accession Number</b>	<b>50-mer sequence</b>
C58	Cytochrome P450 2D	D17397	ccggctcctcagcagggggcccgaggtacaataaa ccagtttggtggctcc (SEQ ID NO:172)
C59	Cytochrome P450 2B	M92447	aactcaaataaacatcaaaagcctgacatcccctg gtcaggtggtgagcc (SEQ ID NO:173)
C60	Cytochrome P450 2C41	AF016248	ccagtgaacatccaacctccattaaaggaaagtct ccagaatttcttgc (SEQ ID NO:174)
C61	Cytochrome P450 2C21	AF049909	ta'tctctgcctctctgtgtgtgtctctcatgaataa ataaaatctt (SEQ ID NO: 175)
C62	Cytochrome P450 3A	X54915	gtgacacagaatgagaaactctaactctgggaaa tgtacaagggatagt (SEQ ID NO: 176)

TABLE 4

ID #	Gene Name	Accession Number
C2	c-erb B-2	ABO08451
C3	Catalase	ABO12918
C4	p53	AF080514
C7	Metallothionein 1	D84397
C9	Multidrug resistant protein-1	AF045016
C11	Tumor necrosis factor-alpha	S74068
C13	BRCA-1	U50709
C17	CD40 ligand	AF086711
C18	Cubilin	AF137068
C19	Alkaline phosphatase	AF149417
C23	Tissue inhibitor of metalloproteinases-1	AF077817
C24	Ubiquitin	AB032025
C27	Vascular cell adhesion molecule 1 (VCAM-1)	U32085
C28	Phenol sulfotransferase	D29807
C29	GRP94	U01153
C33	IL-10	U33843
C36	Rab2	M35521
C37	Rab5	M35520
C38	Rab7	M35522
C41	FGFR2	AF211257
C43	Prostaglandin D synthase	AB026988
C44	Paraoxonase2 (PON2)	L48515
C45	Beta-glucuronidase	AF019759
C46	Caveolin-2	AF039223
C49	IL-8	U10308
C50	Keratinocyte growth factor	U80800
C51	Decorin	U83141
C52	Glucose-6-phosphatase	U91844
C54	ZAP36/annexin IV	D38223
C57	p38 MAPK	AF003597

**TABLE 5 Canine Genes from Differential Display**

Differential Display	BLAST Search	Accession Number	BLAST Score
DD9	Homo sapiens angiopoietin-like 3		159
DD13	(1)Canis famillaris mitochondrion	AF028213	874
	(2)Canis lupus cytochrome c oxidase subunit II		835
DD17	Homo sapiens cytochrome-c oxidase subunit VIIaL	AF134406	76
DD18	Homo sapiens cytochrome-c oxidase subunit VIIaL		76
DD21	Homo sapiens histidine ammonia-lyase	D83077	172
DD22	Homo sapiens mRNA for TPRD (tetratricopeptide repeat domain from the Down syndrome region of chromosome 21)		218

**TABLE 6**

ID #	Gene Name	Left PCR primer sequence	Right PCR primer sequence	Target Sequence on canine array
C64	Gadd45	AACTGA ACCAAA TTGCACT GAA  (SEQ ID NO: 177)	CCATG TAGCG ACTTT CCCG  (SEQ ID NO: 178)	CGCGTCTAGAAACTGAACCAAATTGC ACTGAAGTTTTGAAATACCTTTGTAGT TACTCAAGCAGTTACTCCCCACACTG ATGCAAGGATTACAGAACTGATGTC AAGGGGCTGAGTGAGTTCAACTACAG ATTCCGGGGGGCCCGGAGCTAGATGAC TTTGCAGATGGAAAGAGGTGAAAATG AAGAAGGAAGCTATGTTGAAACAAAT ACAAGTCAAAAGGAACAAAAATTACA AAGAACCATGCAGGAAGAAGCTTGGC C (SEQ ID NO: 179)

ID #	Gene Name	Left PCR primer sequence	Right PCR primer sequence	Target Sequence on canine array
C65	Super-oxide dismu-tase Mn	AACAAC CTGAAC GTCACC GA  (SEQ ID NO: 180)	TCTCC CAGTT GATTA CATTC CAAA  (SEQ ID NO: 181)	GCGCGAATTCAACAACCTGAACGTCA CCGAGGAGAAGTATCTGGAGGCGCTG GAGAAGGGTGACATTACAGCTCAGAT AGCTCTTCAGCCTGGGCTCAAGTTCA ATGGAGGAGGTCATATCAATCATTCC ATCTTCTGGACAAACCTGAGCCCTAA GGGTGGTGGAGAACCAAAAGGGGAA TTGCTGGAAGCCATCAAACGTGATTTT GGTTCCTTCGACAAATTTAAGGAGAA GTTGACCACTATATCCGTCGGTGTCCA AGGCTCAGGTTGGGGTTGGCTTGGTTT CAATAAGGAGCAGGGACGCTTGCAGA TTGCTGCTTGTITTAACCAGGATCCCC TGCAAGGAACAACAGGTCTTATTCCA CTACTGGGGATCGATGTGTGGGAGCA TGCTTATTACCTTCAGTATAAAATGT CAGACCGGATTATCTAAAAGCTATTT GGAATGTAATCAACTGGGAGAAAGCT TGGCC (SEQ ID NO:182 )
C66	UV Excision repair protein RAD23 (XP-C)	GAAAGT CAGGCT GTGGTTG A  (SEQ ID NO: 183)	TGGCA GCCAA ATTCT CATTC  (SEQ ID NO: 184)	CGCGGGATCCGAAAGTCAGGCTGTGG TTGACACCCCTCCCGCAGTCAGCACT GGGGCTCCTCCATCTTCGGTGGCAGCT GCTGCAGCAACTACAACAGCGTCAAC AACCACAGCGAGTCCTGGAGGACATC CCCTTGAATTTTTACGGAATCAGCCTC AATTTCAACAGATGAGACAAATTATT CAACAGAATCCTTCCCTGCTCCCAGC ATTGCTACAACAGATAGGTCGAGAAA ATCCTCAATTACTGCAGCAAATTAGC CAGCACCAGGAGCATTTTATTTCAGAT GTTAAATGAACCAGTCAAGAAGCTG GTGGTCAAGGAGGAGGGGGTGGAGG TGGCAGTGGAGGAATTGCAGAAGCCG GAAGTGGTCATATGAACTACATTCAA GTAACACCTCAGGAAAAAGAAGCTAT AGAAAGGTTAAAGGCACTAGGATTTT CTGAAGGACTTGTGATACAAGCGTAT ATTGCTTGTGAGAAGAATGAGAATTT GGCTGCCAAAGCTTGGCC (SEQ ID NO: 185)



ID #	Gene Name	Left PCR primer sequence	Right PCR primer sequence	Target Sequence on canine array
C67	Proliferating cell nuclear antigen gene	GATAAC GCGGAT ACCTTGG C  (SEQ ID NO: 186)	AGTGT CCCAT ATCCG CAATT TT  (SEQ ID NO: 187)	GCGCGGATCCGATAACGCGGATACCT TGGCGCTGGTATTTGAAGCACCAAGA ACAGGAGTACAGCTGTGTAGTAAAGA TGCCTTCTGGTGAATTTGCACGTATAT GCCGAGATCTCAGCCATATTGGAGAT GCTGTTGTAATTTCTGTGCAAAAGAC GGAGTGAAATTTCTGCGAGTGGAGA ACTTGGAAATGGAAACATTAAATTGT CACGGACAAGTAATGTCGATAAAGAG GAGGAAGCTGTTACCATAGAGATGAA TGAACCAGTTCAACTAACTTTTGCAC GAGGTACCTGAACTTCTTTACAAAAG CCACTCCACTCTCTTCAACGGTGACAC TCAGTATGTCTGCAGATGTACCCCTTG TTGTAGAGTATAAAATTGCGGATATG GGACACTAAGCTTGGCC  (SEQ ID NO: 188)
C68	Glucose-regulated protein 94	CTGTGGT GTCTCTG CGCCT  (SEQ ID NO: 189)	TTTCA GCTGT AGATT CCTTT GCTG  (SEQ ID NO: 190)	CGCGGGATCCCTGTGGTGTCTCAGCG CCTGACAGAGTCTCCGTGTGCTCTGGT GGCCAGCCAGTATGGATGGTCTGGCA ACATGGAGAGAATCATGAAAGCTCAA GCATACCAGACGGGCAAAGACATCTC TACAAATTACTATGCCAGCCAAAAGA AAACATTTGAAATTAATCCCAGACAT CCCCTGATCAAAGACATGCTTCGACG AGTTAAGGAAGATGAGGATGACAAA ACGGTATCGGATCTTGCTGTGGTTTTG TTTGAGACAGCAACGCTGAGATCAGG CTATCTGCTACCAGACACTAAAGCAT ATGGAGATCGAATAGAAAGAATGCTT CGCCTCAGTTTAAACATTGACCCTGAT GCAAAGGTGGAAGAAGAACCAGAAG AAGAACCCGAAGAGACAACCGAGGA CACCACAGAAGACACAGAGCAGGAC GATGAAGAAGAAATGGATGCAGGAA CAGACGACGAAGAACAAGAAACAGC AAAGGAATCTACAGCTGAAAAAGCTT GGCC (SEQ ID NO: 191)

ID #	Gene Name	Left PCR primer sequence	Right PCR primer sequence	Target Sequence on canine array
C69	Glutathione S-transferase alpha subunit	CAGAGA AGCCCA AGCTCC AC  (SEQ ID NO: 192)	ACCAG ATGAA TGTC GCCCCG  (SEQ ID NO: 193)	CGCGGGATCCCAGAGAAGCCCAAGCT CCACTACTTCAATGGACGAGGCAGAA TGGAGTCCATCCGGTGGCTCCTGGCTT CAGCTGGAGTAGAGTTTGAAGAGAAA TTTATAAATGCTCCAGAAGACTTGG TAAATTAAAAAATGATGGAAGTCTGA TGTTCCAGCAAGTGCCAATGGTGGAA ATTGATGGAATGAAGCTGGTACAGAC CAGAGCCATTCTCAACTACATTGCCA CCAAATACAACCTCTATGGGAAAGAC ATAAAGGAGAGAGCTCTGATAGATAT GTACACAGAAGGTATAGTAGATTTGA ATGAAATGATCATGGTTTTGCCTCTAT GCCCCACCTGATCAAAAAGATGCCAAG ATTACTCTGATCAGAGAGAGAACAAC AGATCGTTATCTCCCCGTGTTTGA AGTGTAAAGAGCCATGGACAAGACT ACCTTGTTGGCAACAAGCTGAGCCGG GCTGACATTCATCTGGTCTCGAGGGC C (SEQ ID NO: 194)
C70	BR-cadherin	GTCCGTG GCAGAG TCCCTCA GCTCTAT  (SEQ ID NO: 192)	CACCG TGATG CCACA TAGCT ATCTT CG  (SEQ ID NO: 196)	GTCCGTGGCAGAGTCCCTCAGCTCTAT AGACTCTCTCACCACAGAGGCTGACC AGGACTACGACTATCTGACAGACTGG GAACCCCGCTTTAAAGTCTTGGCAGA CATGTTTGGGGAAGAAGAGAGTTATA ACCCTGATAAAGTCACTTAGGGCAGA AGCCAAGGATAAAAACACAACCAAAA GGAGAAATTTAAAAGAAACACAAATA GAAATCTCTCTCTCTCACACACACACA CATGCATACATGCACGTGCACACACA GACACACAGACACACACACCAGGCTT TGTAGGACACAATCATTGATGATCT GGTTTCTAGCAAGTTGCTGTAGTTATC ATATTGTCAAGTTTTGTTTTACTCTGC CAACACAAGATAAATCCTATTACATG TACTTGCTTGGTTTTGTTTTGTTCTTTT GGATACACACTGAGACAAGCTCAGGC CTATTAAATACAATTTACTGACATGAC AACATAGAACGAAGATAGCTATTGGC ATCACGGTG (SEQ ID NO: 197)

ID #	Gene Name	Left PCR primer sequence	Right PCR primer sequence	Target Sequence on canine array
C71	N-cadherin	GGAGCC TGATGCC ATCAAG CCTG  (SEQ ID NO: 198)	GGTTT GCAGC CTATG CCAAA GCC  (SEQ ID NO: 199)	GGAGCCTGATGCCATCAAGCCTGTAG GAATCCGACGATTGGATGAGAGACCC ATCCACGCCGAACCCAGTACCCGGN CCGATCTGCAGCCCCGCACCCTGGGG ACATCGGGGACTTCATTAATGAGGGC CTTAAAGCTGCTGACAATGATCCAC AGCTCCACCATATGACTCCCTCTTAGT CTTTGACTACGAAGGCAGTGGCTCTA CCGCTGGGTCTTTGAGCTCCCTTAATT CTTCAAGTAGTGGTGGCGAGCAGGAC TATGACTACCTGAACGACTGGGGGCC ACGGTTCAAGAACTTGCTGACATGT ATGGTGGAGGTGATGACTGAACTTCA GGGTGAACTTGGTCTTTTGGACAAGT ACAAACAATTTCAACTGATATTCCCA AAAAGCATTGAGAAGCTAGGCTTTAA CTTTGTAGTCTACTAGCACAGTGCTTG CTGGAGGCTTTGGCATAGGCTGCAAA CC (SEQ ID NO: 200)
C72	Mek5	TCATGG ATGGGG GATCTTT GGATG  (SEQ ID NO: 201)	GGGTG GCCCA TCAAT TCTTC AGGT  (SEQ ID NO: 202)	GGGTGGCCCATCAATTCTTCAGGTGCT GGTCTTTCTTTCGGTTGTTTTCGCATG CACTGAGTGATGAAATGTACAAATGG CTCGGAGAACCTCCAACCGGAAGGA CGGGCGAATCCTCATCAACAATGCAC TGCAGAAGCTGGAGAGGCTCCATGAA AGAGATTCTAACTCCGGACATCAG AATGGATTCCATACTGCTCCCTTGAA ATTCTTTCAGGCGCCATATAAGCATIT GTTCCAACATACGTCTTGCTATAGA ATTACCAGCTGAGTGCTAACTCCAA AATCGCACAGCTTGACCTGTCCTCTTG TGTTTACTAGCGTATTGGAGGGCTTCA CATCTCTATGTAAAATCTTTAAACTCC ACAAGTAGGTAAGGCCTTTAACAAC GCTATTGCAATTCTTCCAAGGACATGC TCTGGAATTTTCTATATACATCCAAA GATCCCCCATCCATGA (SEQ ID NO: 203)

ID #	Gene Name	Left PCR primer sequence	Right PCR primer sequence	Target Sequence on canine array
C73	Glucose transporter	GCAGCA GCCTGTG TATGCCA CC  (SEQ ID NO: 204)	AAGCC GGAA GCGAT CTCAT CGAA  (SEQ ID NO: 205)	AAGCCGGAAGCGATCTCATCGAAGGT CCGGCCTTTGGTCTCAGGAACCTTGAA GTAGGTGAAGATGAAGAACAGAACC AGGAGCACGGTGAAGATGATGAAGA CGTACGGACCACACAGTTGCTCTACA TACTGGAAGCACATGCCCACAATGAA ATTTGAGGTCCAGTTGGAGAAGCCAG CAACAGCAATGGCAGCTGGGCGAGGA CCCTGGCTGAGGAGTTCAGCCACAAT GAACCATGGGATGGGGCCAGGGCCCA CTTCAAAGAAGGCCACAAAGCCAAAG ATGGCCACGATGCTGAGATACGACAT CCAGGGCAGTTGTTCCAGCAGCGCCA GCGCGATGGTCATGAGCACGGCACAG CCCGCCATGCCAGCCAGGCCTATGAG GTGCAGGGTCCGCCGGCCGGCGCGTT CCACCACGAACAGCGACACCACGGTG AAGGCCGTGTTACGATGCCGGAGCC GATGGTGGCATAACAGGCTGCTGC (SEQ ID NO: 206)
C74	SHB (Src homology 2 protein)	CGCCGA TGAGTA CGACCA GCCTT  (SEQ ID NO: 207)	GCTCA GCCCC TTTGA TGGGT AGC  (SEQ ID NO: 208)	CGCCGATGAGTACGACCAGCCTTGGG AGTGGAACCGGGTCACCATCCCAGCT CTGGCAGCCCAGTTTAATGGCAACGA GAAACGGCAATCATCCCCCTCTCCTTC CCGGGACCGGCGGCCGAGCTTCGAG CTCCTGGAGGGGGCTTCAAGCCCATT AAGCATGGGAGCCCTGAGTTCTGTGG GATCTTGGGAGAAAGAGTGGATCCTG CTGTCCCGCTGGAAAAGCAAATCTGG TATCACGGAGCCATCAGCAGAGGAGA TGCTGAGAACCTTCTGCGGCTCTGCA AGGAGTGCAGCTACCTTGTCGGAAC AGCCAGACAAGCAAGCACGACTATTC CCTCTCTTTGAAGAGCAACCAGGGCT TTATGCACATGAACTGGCCAAAACC AAAGAGAAGTATGTTCTGGGTCAGAA CAGCCCCCGTTCCGACAGTGTCACAG AAGTCATCCACTACTATACCACCAGA AAGCTACCCATCAAAGGGGCTGAGC (SEQ ID NO: 209)

ID #	Gene Name	Left PCR primer sequence	Right PCR primer sequence	Target Sequence on canine array
C75	Ear-3 (v-erbA related) or Apolipoprotein AI regulatory protein (ARP-1)	TGCAGATCACCG TCACCG ACCAGG TGTCC  (SEQ ID NO: 210)	CATAT CGCGG ATGAG AGTTT CGATG G  (SEQ ID NO: 211)	TGCAGATCACCCGACCAGGTGTCCCT GCTTCGCCTCACCTGGAGCGAGCTGTT TGTGCTGAATGCAGCACAGTGCTCCA TGCCCTCCACGTCGCCCCGCTCCTGG CCGCCGCAGGCCTACACGCCTCACCC ATGTCCGCCGACCGAGTGGTCGCCTTT ATGGACCACATACGGATCTTCCAAGA GCAAGTGGAGAAGCTCAAAGCGCTGC ACGTCGACTCCGCCGAGTACAGCTGT CTCAAGGCCATAGTCCTGTTCACCTCA GATGCCTGTGGTCTCTCTGATGTAGCC CATGTGGAAGCTTGCAGGAAAAGTC CCAGTGTGCTTTGGAAGAATACGTTA GGAGCCAGTACCCCAACCAACCAACA CGATTTCGGAAGCTTTTACTTCGCCTC CCTTCCCTCCGCACGGTCTCCTCTCA GTCATAGAGCAATTGTTTTTCGTCCGT TTGGTAGGTAAAACCCCATCGAAAC TCTCATCCGCGATATG (SEQ ID NO: 212)

Table 7

Band #	Genbank Gene Name	Accession	Sequence
CTP1D	No significant match		GACTGAGACCATTTATTCNAGACACG CAGCTGACCAAGGAGTGAGGGAGGG ACCAGGTGTGCAAGCTAATAAATAG AGGAGGGGGAGACTTCCTGGAGCTG TAGCCATTCAGTCTTCATTCTTCTCAG GCATGAAGGCATCTCTTTTCTGACCA AAGCTT (SEQ ID NO: 213)
CTP1G	No significant match		AAGCTTTGGTCAGCAATTATATTAGT TTGCATTTTAGTGACAGGTGTAAGAG AAAGGCCCTTCTTCCCTTACTGGGA CAAATCTAGAAATCTTACACAGATGT GCAAATAAAGCTCGCGTGGTGTTC (SEQ ID NO: 214)

Band #	Genbank Gene Name	Accession	Sequence
CTP3B	Homo Sapien N-myc downstream regulated (NDRG1)	BC003175	GCAAAGTTACAAATTTATTGGTCTGG AAATAAATACAAATATCTGATTAAG AAACTTCTCTGGAAAGACTTGTACAC AACAGTTTTCTGTCTCGATTGAGCC ACTCCTGCCCTGACCAAAGCTT (SEQ ID NO: 215)
CTP4B	No significant match		GAGCAGCAGTGAGCAAAACCCACGA AGTTGTTTTAAGGTTACAGCTATGAA TAAACATTGTCCAAACAATGAAGATT TAGGGCTGAAGAACGAGCGTATGTC TACAGTCGAAGCTT (SEQ ID NO: 216)
CTP7B	No significant match		CAGGTGCAAGAGGTTTGTGTTGGGAG GTAATCCTAGAAACCACAGAAGGGG GTGGGGATAGGAGGGATGGCAGGAA AACCAGTAAGAACTGTGTTATTGAGA AGGTTATCACTGTGGACAACCTGGCAC AGAATACACTTCAGAGCTGTCGCCCT GAGGGACAATGACGCCAAGGTCTTTT TCTCTAAGTCCTGTTTCTTATAGGCC GAGGGTGGCTCCTGGGAGCAGTAAC TGCCAACAGTCGAAGCTT (SEQ ID NO: 217)
CTP8A	No significant match		AAGCTTGATTGCCCATACCTGAGCCA TTGATATATTTGAAAATTATGGCACA AATGGAAGAGAACCACATTTGAAAA GCTTCCAGCCTTTCAACAGAAGATAA CTCTTCTTGTGTTTGCAGATTGAGCAG ATAATTTCTTTTGAAGGTGATAGTTT CCTAAATTGGATAAAACCGTGGCTGC CATTATATTCACAGAAAAATAAAATGA AAACTTCAGTTAATTGTGGATTG (SEQ ID NO: 218)
CTP8C	Human DNA sequence from clone RP4- 734P14 on chromosome 20	HSJ734P14	CAATATTCTTAAGAGTTTATTATAAA CTAGTTTCACAGGCTACAAGGAAGTA TTAGGACTATGTACAGCCTGACGGG AAACAGGCAGGGAGCTGAGGAGGGC CAAGATGAGTCTAGGGCCTTGGTGG GCGCATTCCTGGGGGAGGGGGCCCT GAAAGGGAAACCAGACAATCCTGTG AGACTCCAAGAACAACGGCATAACA AACAAACACGTCTGTGGCAATCAAG CTT (SEQ ID NO: 219)

Band #	Genbank Gene Name	Accession	Sequence
CTP10Y	Canis familiaris mitochondrion	CFU96639	AGTAGATGGGACCGAGAATAATTTT AGGGTTAAGGGATAGGAGGAGTAGG GGCAGTAGGTGCAAGGTCATTAGGG CATTTTCTCGTGTGAATGATGGTTTG ATATTTTGTATATGGTGGAATATTT ACCACGTTGTGTGGTGATTAATATAT AAAGTGAGTATAGGGCGGTAAAAGC TT (SEQ ID NO: 220)
CTP11A	cyclin-dependent kinase inhibitor 1A (p21, Cip1),	BC001935	ACTAAGAAATATTTATTGAGCACCTG CTGTGTACCCAGCACTGCGGGAGGG GCTGTGAGAGACCCAGGGCAGTACA GGACTTGTTCTTGCCCTTCAGAGGCT TATAGTCTAGGTGGAACAGGAGAA CCAGGACACATGAGGAGCCAGGAGA AAACAGTACAGGCCAGGATGTTACA GGAGCTTACAGTGTTTGGGGTCAGAC CCACTAAGTGCTTCAGTACCTCTAGG GGCTCAATGTTCAAGGGCCAGAAGAG ACAATAACTCACAACTAGCCCATGTA GCATGCCCTATCCACAGCGTCTACCT CTGCTATCTTAAACATCTGACTCCT CGTTAAGCTT (SEQ ID NO: 221)
CTP16B	Homo sapiens cDNA FLJ20541 fis, clone KAT11364	AK000548	CAAAGAATTTTGTTTTATTATAGTAC ATGAGCTGGACTGATGGGAAAGGGT AGGTGTATGGGCAACCACTGCCCAG ATTAGCATCGGATGCCCATCCCGATG GCCATGAATGTGCCAAATGTGCCGCC ACTCTGCATCATGGTTTCCCGATGC CGCCCATCAGCTCCCGACCCCGCATT CCGATCCTGAGACAGGAAAAGGTGC CGAAGAGCGCCCCGGCCGCCATGCC CACTGCACAACCCATCACAAAGCCC ATCTTCACGCGGTAAAAGCTT (SEQ ID NO: 222)
CTP17G	No significant match		CATATATATTCTTTTTTATTCTTGTT ATACCTTCCCAAAACAGAGACATTCA ACAGTAGTTAGAATGGCCATCTCCCA ACATTTTAAAAAACTGCACCCCCCA ATGGGTGAACAAAGTAAAGAGTAGT AACCTAGAGTTCAGCTGAGTAAGCC ACTGTGGAGCCTTAAGTGGTGAGGTC TTCCAATTTTCAAGTGATGTGTCTTC AACTTGATCATCATTTTAGCGGTAA AAGCTT (SEQ ID NO: 223)

Band #	Genbank Gene Name	Accession	Sequence
CTP18B	No significant match		CCAAAGAAGTGTTTATTAACATTG GGCCTCAGCGGGGCCAGAGAGGAAG TGGGTGCTAGAGGCTCCTGAGGCTCA GGGCAAGGCCTGCAAGACAGATCCC ATTGCTCAGGAGGCAGCCCAGATTGC AAATGGAAGACAGG (SEQ ID NO: 224)
CTP19F	Homo sapiens chromosome 5 clone CTB-187A7	AC008651	AAGCTTTTACCGCAATGAGGGATT TACATGAAAAATGGACAAGGCTTG CATTAGTTTACTCCATCACAGCACAG TCTACATTTAATGATTTACAAGATCT GAGAGAGCAGATTCTTCGAGTTAAA GACACTGATGATGTAAGCTGACTTCC TAATAAATATATTTTACTTG (SEQ ID NO: 225)
CTP20B	Bos taurus ribosomal protein L30 mRNA	AF063243	AAGCTTAACGAGGACAGGCCATCAG GGCTGCCAAGGAAGCAAAAAGGCT AAACAAGCATCTAAAAAGACAGCAA TGGCTGCTGCTAAGGCTCCACAAAG GCAGCACATAAGCAAAAGATTGTGA AGCCTGTGAAGGTTTCCGCACCCCGA GTTGGTGAAAAACGCTAAGTTTTAGT GGATCAGATTTTAAATAAACATCTG ACTCTAACT (SEQ ID NO: 226)
CTP21A	Rattus norvegicus ribosomal protein L31 (Rpl31),	NM_022506	CATGGAGCNGTTTTATACCTTTATTT GACAATCAGCGATTAGTTCTCATCCA CATTAACAGTCTGTAGATTTTTGAAA GTGGTGACAGGTACGTAGGTAACCA GCGTGTAGAGCTTGTTTGGTGAATCT TCATCCTCGTTAAGCTT (SEQ ID NO: 227)
CTP22C	Canis familiaris mRNA for ubiquitin-ribosomal protein L40, fusion	AJ388512	CAATGGTGTCAGTGGGCTCGACCTCA AGGGTGATAGTTTTGCCCGTCAGGGT CTTCACAAAGATCTGCATCTCTGCGT CTGCTGGAGCGAACTCGCAAGGCCG CCGCCACCAAACCGCTCGCCACCTC GTTAAGCTT (SEQ ID NO: 228)



Band #	Genbank Gene Name	Accession	Sequence
CTP25D	No significant match		AAGCTTGCACCATATATATAACTCTT GGGCAGAGGGTCTGGCATAACATAAG TAGATACTCAGAAATATCTGTTGGAT TGTGTTGATTTAATTATTTTTGTGTTG CTTCTTTTAAAGATGAGCACTTTCTA TTAGATATTTTTTTGATCAAAAAAAAA GATATTTTTTTTGATCATACAGATTTA AGCAGGATTTTTATTAATTCGTTTCTC TTCCTGGTTGG (SEQ ID NO: 229)
CTP26A	Canis familiaris chymase gene	U89607	CATGAGAGAGACGGAAAGAGAGGGCA GAGACACAGGCAGAGAGAGAAGCAG GCTCCATGCAGGGAGCCTGACGAGG GACTCGATCCCAAGACTCCAAGATCG TACCCTGGGCCAAAGGCAGGAGCTT AACCGCTGAGCCACCCAGGTGTCCCA ACTGTCAGGGTTTTAAAGAGTGAGT GAAATTTGGGGAAATATCAAGGCAC AGTCATATTCATAAACATAATACGTT GAGAAGCTT (SEQ ID NO: 230)
CTP26B	H.sapiens cycA gene for cyclin A	X68303	AAGCTTCTCAACGTATATGGTGTACA GTTTTTGTAAGGTTTTAATTTTACAAT CATTCTGAATAGTTATGGTCAAGTAC AAATTATGGTATCTATTACTTTTAA ATGGTTTTAATTTGTATATCTTTTGTA CATGTAACATCTTAGTTATTTGGCT AATTTTAAGTGGTTTTGTAAAGTAT TAATGATGCCACCTGTCAGCACATA AGAGTAAGAACTAATAAATGGATTT GG (SEQ ID NO: 231)
CTP27C	Homo sapiens CTCL tumor antigen se20-10 mRNA	AF177227	AAGCTTCTCAACGTATTCAAGAGAAA ACTTCTAAATTGCCAGATATGTTAAA AGACCATTATCCATGTGTGTCTTCAC TGGAGCAGTTAACAGAGTTGGGAGG TGAAACTGATGTTTTTGTATGCCGTC CTAACACAGCCCTATGCCCGATGTAC TCAGAGACTGGAACAGCACAAAGAGA AATAAAGCAACAATCAGTAATGGG (SEQ ID NO: 232)

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CTP28D	Homo sapiens upstream binding protein 1 (LBP-1a) (UBP1)	NM_014517	AAGCTTTGGTCAGGCAGGAATAGGA ATGAGTAATTTGGGCTTTGAAATCTC TCCCAGAAGACAACTACTTCGATGG GAAAAAGCTTTGACATTTTGTGTTTT ATTTGTAGAGGGGGTTATTGGATACA GAGGAGCCTGGTCTCATACTTTTCA TCTTCAGTCTGAAAAGATCTGTAATT CTGTAGACCCTGAAGCGGGGGAAC TTTCTTTCTGCCATCTCCCTTTGCTTT CATATGAACACCTCTTCTGTACCAAT CATTTGGAAAAGAAGTGAGCATATCT CTTGTTTTAAAAGTTTTGCTTGNCTG GTTAGCATTCCTTTTGAGCTCAACAT ATATGGAACAATAAATGTCAATTAAT GCTGNGNGCTATTTTGAATTCCTCAT CAGGTTTTAGAAGTGGGGTCAAGAA CACTTAAAAGCTCATTGGACTTTGAA ATTATNCCAGCCGCCNTTGACCATTA TCTGGCCCANCAAAGCAGGTTAAATT ATGGCNCCNGCAAATTTGCTTTTTTT TTTAATAGNNGGANGNNTACNTTCA GNTTAATAAATGTTTTCCGATGGTTT GC (SEQ ID NO: 233)
CTP30E	Homo sapiens BAC clone CTB-60N22 from 7q21	AC003083	GGTCAAAGTGTATAGTTTTTGACTTAC CCCTCCCAGATCCTGAATGTCTTTT GGAGTTTTTCAGATACGGTGACAGAA GGTAAGTCAATGTAAAATATTTTTCC CCAGAGTGGCTTATATTTGTATTTTC TGGTTTGTATCAGTTTTTCATAGATT CATAGATCTGTTTTTTTCATTTTTGAC TTGGATTCCACCTGTTGTTTAAAAAA AGTAGAATCAGATCATGATTTATGTG GACAGAAAATTTCTCTTTTAAAAATA CTTTTATACAGTCATCTTTCATAG AGGGGGAAAAAATCTTTATAATACC ACCAATTAAACACTCAATAGCATTTT ACTGTATTTCTTCGTAGTATCACTTA GGATAAAACCAGAATACCATATTTGT TTTAACAGATCCCATACTGTAAAATA ATCATCGTTCACAGCCTACAGTCGAA GCTT (SEQ ID NO: 234)

Band #	Genbank Gene Name	Accession	Sequence
CTP31A	No significant match		GGGGCAGATAAAAAACACTTAATGTA AAATTTACCCTCTCAGAAAAATTTCC AGTATGCTATACGGTATCACTAACTA TAGTCACTATAGTATACAGTAGATCC CTAGGATTTATTCATGATGTACAGTC GAAGCTT (SEQ ID NO: 235)
CTP32D	cDNA FLJ14795 fis, clone NT2RP400121 9	AK027701	AAGCTTGATTGCCAGAGTTACGAAA AGCATCAAAGCATCTTTATGGTCAGC TTAAATTTGGTACACTAGATTGTACA ATTCATGAGGGACTCTGTAACATGTA TAACATTCAAGGCTTATCCAACAATAG TGGTGTTCAACCAGTCCAACGTTTCAT GAATACGAAGGCCATCACTCTGCTGA ACAGATCTTGGAATTCATAGAGGACC TTATGAATCCTTCAGTGATCTCCCTG ACACCCACCACTTTCATGAAGTGGT TAAACAGAGAAAACATGACCAAGTC TGGATGGTTGATTTCTATTCTCCATG GTGTCATCCATGTCAAGTCCTAATGC CAGAATGGAAAAGAATGGCCCGGAC ATTAAGTGGACTGATCAATGTGGGCA GCGTAGACTGCCAACAGTATCATTCT TTTTGTGCCCAAGAAAATGTTCCGGAG ATCCCTGAGATAAGAATTTACCCCCC (SEQ ID NO: 236)
CTP34A	Homo sapiens ribosomal protein S29	NM_001032	AAGCTTTGGTCAGGGCTCTCGTTCTT GCCGCGTCTGTTCAAACCGGCACGGT CTGATCCCGGAAATACGGCCTCAACA TGTGCCGGCCAGTGTTTCCGTCAGTA CGCCAAGGATATAGGCTTCATTAAGT TGGATTAAGTGAAGTTCCTTGAATGG GTCATCCAAGATACCTACCTTAAGT CAGATGTCCAAGATACCTACTTTGAT GCCAACTCATTGTATATAAAATAAAA ATACTCCAATTATGAGTGTTTTAATG TG (SEQ ID NO: 237)

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CTP36A	No significant match		CAAGTTTTACCATTGTTTAAATTATTG AAACAAAATTAACGTAAGTAGAATC ATGTGCAACAGTGTCTTAACATATG GAAGAGGTAAATATGAATTTTATACA ATAAGGTATATTATCCACTGTAACAA ATTTCCAATAATTTGGCATTTATCTTT CACAAAATGTCTCCCAAATTCTAAGC AAAGTATGCAAATTGGAGATTAAGCT TAAACAGGCATAATTATCTTCTTATC CAGTTTTTCTGAAGAGACTGAAGAGT TCAGGTCTGACCAAAGCTT (SEQ ID NO: 238)
CTP37A	Homo sapiens nuclear factor associated with dsRNA NFAR-1	AF167569	CAGATGTGATAAAATCGTTTTTCATTA CTGTCAAAGGCATCAACCAGATTTGG GAATTTGTTAAAAGGTTAAAAATTCA TACAAAACCTGCTGTAAATTAAGACA AAGGTAGATTAAAATGCATCATTATC TGTCCTCTTAAATAAAGTAATGCTTTC CATAAAAAGCAAAGGTGGGCTTTTG CCTTGATGCTGACCAAAGCTT (SEQ ID NO: 239)
CTP41B	Homo sapiens mRNA for KIAA1392 protein	AB037813	GGGAAGTGTCAAGGATCAGTTCCGT GGCACCCTCTGACCACAGACTGGGA GCAACACGCATCTGTGGCATTAAAA ATGGAATTGGCAACTTCATGACATTG GAATGCATATCACACTTACAGTGTCT AGACTTTCCTATGTGTGCTCAGTTAC AAGTAGTGAAGCAAAAGTATACATA TCACCCCTACTGCTATTCGGTTGCTA CAGAGCCATAAATGTGAAAAGCAAT ACTCTGAAATAAAGATTTTGTTTTTT GCCCTAGCCTACTAAGCTT (SEQ ID NO: 240)
CTP47G	No significant match		AAGCTTGCACCATACTCCTCCTCTAC ATATGCTCCCAAATTACCTTCTAAAA AGGCTGTATTAATTTACTTTCACCAG TAGTATTATGAGAGTGCCCATGTCCC TTAGCCTTTTAAAATTCATATGAGC AATCTTTAAATCATGTACTAAATCTT ATAGGCAAAGAATAGGGCCTTGCCC CTGCCCCCTGTT (SEQ ID NO: 241)

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CTP50A	No significant match		ATTCCTTTTCCAAGGACCTCTCTTCTA TGTGATCACTGAGTAAGTTCAGTCAC TCCCATCATCTCTAGATTGGAGATTT CCAAATTTATGGCCTTTCCTAACTTT GAAGTCCTTATTTCTAACTGCCTACT AAGCTT (SEQ ID NO: 242)
CTP51A	Homo sapiens intestinal N- acetylglucosa mine-6-O- sulfotransferas e	AF219991	ATAAATAGAGATGGGGGTCTTGCTAT GTTGCCAGGCTGGTCTTGAACCTCTG GGATCAAGCAATCTGCCTGCCTTGGC CTCCTAAAGTGCTGGGATTACAGGTG TGAGTCACTGTGCCTGGCCTCATATA GTCCTATAACAGCCTACTAAGCTT (SEQ ID NO: 243)
CTP52B	No significant match		AAGCTTAGTAGGCAATAATAGAGAA GTAGAAATTGAATGTGGAACATTAA CCATTAAAAATCATACTTTTGAATGT GCTGAGGTCATGAATTGTTTTACCT TCTTTGTAATTTGTGTTTTTCAGATTT TCTGTAGTTAGCATATATTCTATAAT CAGAAAAAGATGCTTCAAGTTTTTTG CAGATTTACAGAATTTTGTIT (SEQ ID NO: 244)
CTP53A	No significant match		AAACAAAATTCTGTGAAATCTGCAA AAAACCTGAAGCATCTTTTCTGATT ATAGAATATCTGCTAACTACAGAAA ATCTGAAAAACACAAATTACAAAGA AGATAAAAAACAATTCATGACCTCAG CACATTCAAAAGTATGATTTTTAATG GTAAATGTTCCACATTCAATTTCTACT TCTCTATTATTGCCTACTAAGCTT (SEQ ID NO: 245)
CTP58A	No significant match		AATTGTCACGAACAGGGCTGACTGA CACTGCAGTGTGTCCTTGTTTGTGA TCCCTGATCTAGGCCTCGGCTTTTCA AACTGCAGTTGATCAAACCTGGGATAT GCTTCGGCTGAATCTGCTCTCTGGTG CTTCTCTTTAATCGTTTTCTCCTTAAA TGGGTTACTTTCTTACTAGGAAAAAA AAAATGTTCCACCTCTGGAATTAACG TTGAGAAGCTT (SEQ ID NO: 246)

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CTP59A	Homo sapiens cyclin D2 (CCND2)	XM_012143	AGGTCAAGGTGAGTTTATTGTCCAAA TAGCATAACCTAATTGCATTCAAAAC CATTTTCAAATCCATCTTTAAACTAG TCAGAAAAACAGGTTATTATTTTTTA AATCACTTAACACTGAACAGATAAG ACCTCTTAAAAAGGCAGCTGACTATAT CATGTCACCATCATAGCCAATACAAC ATTTTTGCCATACTTCCTAAAAACCT TTTCGCATACACTGATCATGCTACTT ATCAGCACTTTTTTAACATCCTGACCA AAGCTT (SEQ ID NO: 247)
CTP60B	Homo sapiens RNA binding motif, single stranded interacting protein 1 (RBMS1)	XM_016120	ACTAAAATAAACCTGTTCGGGGGGA ACAGCTACTAGATGAATTTAAGGGTT TTATGCACCTTATAGAATTATAGCA AAAATAGTTTTAGTTGATTTTCATTAT AAATAACGTTTTCAAGAACCTGTGCA AAACTGTCAATAATTTCTAAAGCAC AATTGATCAGAAAAATCCATGATTGT TCAGCCTTCACACCCTTCTTCATGTA AGAACACCCTTCTGTACATCTCACAG TACTTATTAGGTTGAAAGGTATATG GTGAATGGTCATTAGACGTCTCGACA GCCACCTGCTGCTGACCAAAGCTT (SEQ ID NO: 248)
CTP61D	prion protein [mink, Genomic, 2446 nt]	S46825	ACATTAAATGCCCAGTGCAAGCCAG GAACATTGCAGAATGCTAAATTTATC TGCTAGGTGATGATATTGAACGATCT AGACAATAATTTACCTTACTTAAAT AACAATGAACAGAATTCCTTTTTTTC CACTCTGAGTGGATATTTCTGTCATC TCTGACCAAAGCTT (SEQ ID NO: 249)

Band #	Genbank Gene Name	Accession	Sequence
CTP62A	No significant match		AAGCTTCGACTGTCGCATCAATGAAT GTTTTAAGTAATAACTTTGCTGGTTA TCAGCTTGATGGTGCATTAAATTTAT GGCTCATTTCCTTTATTTTGACCATTG TCGGATTCTTCATTTTATATTGGACG ATCCCCAATCGAACGGTACCAATTTT TTCAGCTGTGATTGCGGCATGTTTCA ACGCGACCGTTTTTGAAATTTTAAAA CATTTATTTGGCTGGGTCATGAGTAA TTTCACCAGCTATGAAATCGTTTATG GTGCTTTTGCAGCAGTTCCTATTTTTC TACTTTGGATCTATCTGTCTTGGAAT ATCATTTTATTGGGTGTAGAAGTGAG TTATGCACTCACCGCCTTCCATTCTG GT (SEQ ID NO: 250)
CTP63A	No significant match		AGAATCAAGCCACCAGGTGTTTATTT TTGCACTATAAATAGAGTTCCTAGT CCCATTTTGTACATAATATATGAGA TAACAGAGAACCTAAAATTCATTTGG TGAAAATCAAGTGTGTAGTATACCTA AATACCAATGAGCTAGTAAGACTTGT AAGGCACTGAAGCTAAGGCTAACAG CAACAGAGTCCTTTATGAAAATAATT TCAGAACCACAACGCATTCTCTGATG GTGCATTCCCCTGGGACAGTCGAAGC TT (SEQ ID NO: 251)
CTP64B	No significant match		CATCGCAGACATTTATTTTAGTTTTGT TAATTTCAAATATTCATTAACCTCTT GTATCAGATTTAAGGCAGAGAAAAG ATACACGCCCCTGGTTAACTGAACCG GGGTTTAGATAGTGTAGTCCACCCTG GGTCCACCAGGGAGACCTCACCCG AGATGACAGGTCCGGTTGCTGGTGCA CAGTCGAAGCTT (SEQ ID NO: 252)

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CTP65A	Pig mRNA for endoplasmic-reticulum Ca(2+)-transport ATPase (class 3 non muscle transcript )	X16951	CCATTTAAAATGTTTTATTTTCCTTTT TAAACTAGATTGTGAAGTGCCACTGA AATAGGCAATGTTGGCAAAACAATG TCTGTTACAATAAAATACATTAGACA TTAAATAAATAACCTTAAAAACTAC ATGGGGGGACATGAACCCAGTCGAT TGAATCTGGAACAATGTTTTCTGCAC AAGCGAGAACAGGCATACCTCTTGTT AAGACTGATGTAAACAGAACCATCG GAACCCTACAGTCGAAGCTT (SEQ ID NO: 253)
CTP67A	clone RP5-1071L10 on chromosome 20	AL133228	CACGTTTTAAAACCTTTATTTGCATATT AAAAAAATTGTGCATTCCAATAATTA AAATCATTGGAACAAAAAATGGCA CTCTGATTAAACTGCATTTAACAGC CTGCAAGATACCTTGGGCCAGCTTGG TTTTTTACTCTAGATCTCACTGTCTC CCACCCAGCTTCTTCCTTCACCAACA TGCAAGTTCTTTTCCTTCCCTGCCAGC CAGCCAGACAGGCAGATGGGAAAGG CAGGCGCCTTCGTTGTCAGTAGTTCT CCATTCTTTGATGTGAAAAGGGGCAG CACAGTCATTTAAACTCGATCCAACC GCTTTGCATCTTACAAAGTTAAACAG CTAAAAGAAGTAAAATAAGAAGGCA ATGCTTGTGGAATGTACAGTGCATAT TGGCGGCGCACGCCTCATTACGATTC GGCTACTAAGCTT (SEQ ID NO: 254)
CTP68F	Oryctolagus cuniculus New Zealand white elongation factor 1 alpha Rabefla2)	U09823	CTCATTAAACTTTTGTTTTAATGGGTC TCAAAATTCTGTGACAGATTTTGGT CAAGTTGTTTCCATTAAAAAGTACTG ATTTTAAAAACTAATAACTTAAAACT GCCACACACGCACAAAAA AAAAACAAATGGTCCACAAACATT CTCCTTTCCTTCTGAAGGTTTACGAT GCATTGTTATCATTAGCCAGTCTTTT ACTATTAACTTAAATGGCCAATTGA CACAAACAGTTCTGAGACCGTTCITC CACCCTGATTAAGACTGGGGTGGC AGGTATTAGGGATAATATTCATTTAG CCTACTAAGCTT (SEQ ID NO: 255)



Band #	Genbank Gene Name	Accession	Sequence
CTP70A	No significant match		AAGCTTAGTAGGCACGCAATAAATA GGAGAATGAATCAGAGTCCTCCAAC GCGTCCTCCCTAATGTCCCTTTGAGC TGCCTCCTCTTCCACTCTGCCTCAGCT TGTCCATGTCACCTTCGCTCCAGAGCA GCCGCAAGAGCATCTTAACACCTTGT GGCCTGAACTCTCTCCCATCCTCCAC TGTACAGTGATATGACTGAAACCTCA TTTAACCTTTTAGAACTACCAGGAGG AGGTTCCCAAGGATCCCAGG (SEQ ID NO: 256)
CTP71A	Canis familiaris caveolin-1 mRNA	U47060	CACTGAATCTCAATCAGGAACTCTT AATGCACGGCACAACCTGCCAGATG TGCAGGAAAGAAAGAATGGCAAAGT AAATGCCCATATGAGTGCCATTGGG ATGCCAAAGAGGGCAGACAGCAAGC GGTAAAACCAGTATTTTGTACAGTG AAGGTGGTGAAGCTGGCCTTCCAGAT GCCATCAAACTGTGTGTTCTCTTG GTTCTGCAATCACATCTTCAAATCA ATCTTGACCACGTCGTCGTTGAGAAG CTT (SEQ ID NO: 257)
CTP72B	No significant match		CCATTTTGTCTCTTAAAGAGCATCTT AAGTGAGAGATCATGACAATCTTTGG CCACTCCAGGTTTTCTCATCTACTAC ATGATCTGTTCCCAACAATAAGCCAT TGAAATTAAAGGTCTCCAGAAGTTTT ATCTGGGGTCTGTGATTGAAAAGAA GGAAAATGAGATGAGAGACTGCCTA CTAAGCTT (SEQ ID NO: 258)
CTP73A	Homo sapiens chromosome 11 clone RP11-546N8 map 11q	AC026201	CAAGCCCATCAATTAGTGTTCTTTTT ATAGACATTACACACAACACATATAT AGTGACACAAACACAAGATTCAACA CTTGTAAGATTTTTTATTTGCCAGTTT CTTAATTGGATTACTGGCATCAGGGT GGAAACTTTAGAGGAAGAGAGCCAG GTAGCATGCATTTCTAGGGCCTACTA AGCTT (SEQ ID NO: 259)

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CTP73B	No significant match		CCCATAAGAAACATCTTTAAAACATT CAGAATACTCAGGATAATCAAGGCT AATATTCCTATAAAATTCCTTACGTGT ATTATGTACATTTCAGAAAAGTGTA TTACTCAAATATTATACTCAAAACCC CTTATAGTCTGCTAACTTGCATGTAG AAACATCTGAAGTAACATGCTGCCTA CTAAGCTT (SEQ ID NO: 260)
CTP74A	No significant match		AAGCTTAGTAGGCATCAATTGGATCC TTTCCTATGTTGAAATGGAAGAATTA ATGAGCTTACATTAATTAGTATTGTA ATGTGTAAAGGAAGCCCAGCAAAAT TTTTTGAAAACCTTGATGATCCCAACG TATTTACCATTGTATGTTAAAGCAAA ATAAATCACCATTTTTTTA (SEQ ID NO: 261)
CTP75C	No significant match		AAGCTTCTCAACGGCCTCCACCTCCT TTCTGCCCTCACAGCCTCCTGGCTCT GGCCCAAAAAGTGATTCAATTTGTAA TTATCATGGTTTTCTGCATTAAAATG GCCATTTCTGG (SEQ ID NO: 262)
CTP76B	No significant match		AAGCTTTTACCGCCATCTTGGCTCCT GTGGAGGCCTGCTGGGACCAGGACT CCTAAAGCGACGANTTTTTNTGGAAG GCTTTGGTCCAAGGCCATTTTGGCCG GCTATAAACGGGGTCTCCGGAACCA AAGGGAGCACACAGCTCTTCTTAAA ATTGAAGGTGTTTACGCCCCGAGATGA AACAGAATTCTATTTGGGCAAGAGAT GCGCTTATGTATATAAAGCAAAAGA ACAACACAGTCACTCCTGGCGGCAA ACCAAACAAAACCAGNAGTCATCTG GGGAAAAGTAACTCTGGGCCCATGG AAACAAGTGGCATGNGTTCCGTGCC AAATTCCGAAGCAATNTTCCTGCTAA TGCCATTGGACACAGAATCCGAGTG ATGCTGTACCCCTCANAGGATTTAAA ACTAACGAANAANCAATAAATAAAT GTGGATTTGCGNTCTTNGG (SEQ ID NO: 263)

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CTP77D	No significant match		CAATTGGTTTAGTTTTATTICAAAATT GTACAAAATGGCCATAAGCGGCTAT AAAAAATTTTCGTTTTTCGGAACACGTG GAAATTCAGAAAGAACAACAAAGCA GGTTATCATTTACAGTGTAATGGAA AAGCTCTCTCTGAGGCAGGAATCACA ACTCTTCCTTCTTCTTCCCCAGTCTCT CGTGGTCTCCTTCCCGGAGCGCTCGA ATGAAACTGGTAAACCCCGATTCCGT CCGATCGC (SEQ ID NO: 264)
CTP78B	Homo sapiens SON DNA binding protein (SON)	XM_009738	CGATGTTGAGATCCAGATGACACAG GAAATTCCTTTGTTAATGTTACCTGG CTTTTTGGTGGAGTTGGCTTTGCTGC AGCAATATTCAGATTGAAAAAATG GGTTTGGGTTCACTGAGTTTAAAGGG ATGATGATAAAAAGGAGGTTCTTCTT CCTCTTCATCCCGAAACATGAGGCTT ATTCATATTACATCATCTTCTTT ACTCTGTGCGATCTGTTTGCAATTCTC AAGTTAGTTCTTCTATAGTNGCTCCT CCTGATTTTTTAGCAACTTTCTCTTCT ATTGTGGGTGGAGGTGCACGCTTTTA GGTTTGGCGGGTAAAAGCTT (SEQ ID NO: 265)
CTP79B	No significant match		CATATATATTCTTTTTTATTTCTTGTT ATACCTTCCCAAACAGAGACATTCA ACAGTAGTTAGAATGGCCATCTCCCA ACATTTTAAAAAAACTGCACCCCCCA ATGGGTGAACAAAGTAAAGAGTAGT AACCTAGAGTTCAGCTGAGTAAGCC ACTGTGGAGCCTTAAGTGGTGAGGTC TTCCAATTTAGAGTGATGTGTCTTC AACTTGTATCATCATTTTAGCGGTAA AAGCTT (SEQ ID NO: 266)
CTP80A	Homo sapiens WDR4 gene for WD repeat protein	AB039887	CGCCGGCCAGAAAGCGTAATATTCTT TAAAGGAACCTTAACAAAACCTTACA CTTAATAATGTAAATCTCACCATGTT CCTAGTCAAAAATTTACTACACAGAC TCAGTAGCGGTAAAAGCTT (SEQ ID NO: 267)

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CTP81A	No significant match		CCAAAGAAGTGTTTATTAACATTTGG GGCCTCAGCGGGGCCAGAGAGGAAG TGGGTGCTAGAGGCTCCTGAGGCTCA GGGCAAGGCCTGCAAGACAGATCCC ATTGCTCAGGAGGCAGCCCAGATTGC AAATGGAAGACAGGCCATGGTAGCG GTAAAAGCTT (SEQ ID NO: 268)
CTP85D	Homo sapiens Rho- associated, coiled-coil containing protein kinase 1 (ROCK 1)	XM_008814	AAGCTTAACGAGGAGACAGAGGTCA TGATTCTGAGATGATTGGAGACCTTC AAGCTCGAATTACATCCTTACAAGAG GAGGTGAAGCATCTCAAACATAATCT TGAAAGAGTGGAGGGAGAAAGGAAA GAAGCTCAGGACTTGCTTAATCACTC GGAAAAGGAAAAGAATAATTTAGAG ATAGATTTAAACTATAAGCTTAAATC ATTACAACAACGGCTAGAACAAGAG GTGAATGAACATAAAGTAACCAAAG CTCGTTTAACTGACAAACATCAATCT ATTGAAGAAGCAAAGTCTGTTGCAAT GTGTG (SEQ ID NO: 269)
CTP86F	Homo sapiens chromodomain helicase DNA binding protein 3 (CHD3)	NM_001272	AAGCTTAACGAGGACCCAAGAAGCA GAAGGAGAACAAGCCAGGAAAACCC CGAAAACGCAAGAAGCTTGACAGTG AGGAGGAATTTGGCTCTGAGCGAGA TGAGTACCGGGAGAAGTCAGAGAGT GGAGGCAGCGAATATGGAACCTGGAC CAGGTCGGAACCGGAGGCGGAAGCA CAGGG (SEQ ID NO: 270)
CTP87B	Homo sapiens tetra- tripeptide repeat domain 3 (TTC3)	XM_009760	AAGCTTAACGAGGCATGTGAAAATT ATGAGCAGAGAAAACCTCAAGGGCTC AGAAGAGACCAGGGATCTGGAAGAA AAATTGAAAAGGAACCTAGAAGAAA ACAAGATCTCAAAGACAGAATTAGA TTGGTTCCTTGAAGACTTGGAAGAG AAATCAAGAAATGGCAACAGGAG (SEQ ID NO: 271)
CTP88A	Rattus norvegicus ribosomal protein L31 (Rpl31)	NM_022506	AAGCTTAACGAGGATGAAGATTAC CAAACAAGCTCTACACGCTGGTTACC TACGTACCTGTCACCACTCTCAAAAA TCTACAGACTGTTAATGTGGATGAGA ACTAATCGCTGATTGTCAAATAAAGG TATAAACTGCTCCATG (SEQ ID NO: 272)

Band #	Genbank Gene Name	Accession	Sequence
CTP89B	Homo sapiens genomic DNA, chromosome 8q23, clone: KB1935H12	AP003473	CTAAAGGGCCAGATAGTAGCTGTGG GCTGGGGTCTCAAACCTGTGTTGCCCA CTACTCAACTCTGCCATTGTAATGTG AAAGTAGTCACAGACAAAATATAAA GAAATGAGTGTGACTGTGTTCCAATA AAACTTTATTTACAAAAGCATTTCAGT GGGCTGGATTTGGCTTTTGGGCCATA ATTAAATCCCCTCTGGTAAAATAATC ACTATTTTAGCTGGATCATGAGTACG TGGAAGCTT (SEQ ID NO: 273)
CTP90A	Homo sapiens clone 24800	AF070622	ACAGGTTTCATCTGAATACATATTTA TTAGATAAATATTAGAGGTTGTCACA TCATCTAACTACATACAGCTTTGCAA GACTAGAAATCACAATTAGTTTTTTG ACCAGTTTAAAGTATGAAATGATTGC ATTGTACATACGATGTACAAAGACG ATGATGGTTTTCTGTGGGAGTTACTTC AGGCTGCACTGGTGGGTGTGTTTATG TGTGTACGTGGAAGCTT (SEQ ID NO: 274)
CTP92A	No significant match		GCACTAAATTCAAACCAATGACCTCC CATGTTCTAATTCTGATTGTTTAATCC AACTGGGAGGGTAAACGGGAGACTC TTTGGCCTGTCAGTGACAAAATGGTT TGTAAGGAGGAGGAGGAGGAGGAGG TATACAAGTAAGTATAACTAGCACTC AAGCTT (SEQ ID NO: 275)
CTP92C	Human DNA sequence from clone RP4-580N22 on chromosome 1q42.2-44	AL133286	GGGGTGTTGAAGAGCCTTGTTTTGTC ATATTACCAGAGTTGGTTTTCTGGTT CCTTCTCATTTGGGTAGGCTCTGTCA GAGAGAAGGTCTAGGGCTGAAGGCT GTTGTTTCAGATTCTTTTGCCCAAGT GGTGTTCCTTGATGTAGCACTCAAG CTT (SEQ ID NO: 276)

Band #	Genbank Gene Name	Accession	Sequence
CTP93F	clone RP1-211D12 on chromosome 20q12-13.2	Z93016	AAGCTTGAGTGCTGTTGCTGATGTAC AACTTAAAAATGTGAAGTTTGTAGCT TTAACTTTTTTGTAAATAAAAACTAATA ACACTGGCTTAAGTGCTGACTTGAAA TGCTATTTTATAAAGTTTGGATGTAA ATAATCAATCGAGGTCAGCAGTTTGT ATATGTAGGAGACATAGCTTCCTCCC TGCACCCCCCATTTTTTTAAAAATTTG AGGTGCTTCCTGTGTGTTTTATGTTA GAATTGTTCTCCCTCCTTCCTACACGT GGTCACCTTTGTTTTAAATAAACTGT CCTTTGG (SEQ ID NO: 277)
CTP94B	Homo sapiens clathrin, heavy polypeptide (Hc) (CLTC)	NM_008305	AAGCTTGAGTGCTGTATCCTGTGCTT TTTCTGTGGGACCATTCCATTCAGGA GCAAAGAGCACCATGATTCCAATCTT GTGTGTGTTTACTAACCCCTCCCTGA GGTTTGTGTATGTTGGATATTGTGGT GTTTTAGATCACTGAGTGTACAGAAG AGAGAAAATCAAACAAAATATTGCT GTTCTTCAGTTTTGTTTGTGGAATTG AAATTACTCAAATTTAAATAAAATTA CTGGACTGTGG (SEQ ID NO: 278)
CTP99A	No significant match		AGCATATGTAAGATCTCTGGCTTGTA GAAGACAAGTTTATATAGCACTTAAA AAACCATTGTGTTACATTAAATGTCTGA ACTCAAACCTTTTAAAGAGTATAGAGA ACTACAAAATGGAAAAAGGAAGCAG ATATACGCTTTATGAGGAAATTGTGT TAATGATCTCTCCTCTAAAAAAGGAC TCTCCCTATTATCATAATGACCACA CTGCCCCGTCCTTAAACCACTGGTCG CTGACATTATGCCGAAGCTT (SEQ ID NO: 279)

Band #	Genbank Gene Name	Accession	Sequence
CTP100A	COX15 (yeast) homolog, cytochrome c oxidase assembly protein, clone MGC:8634	BC002382	AACATATAAAAACATTTATTCACTAG GAATAATTGTGGCAGACACAATCCA GTGAAAGCAGCTCAATCCTGCTCAGT TAGGCTAGTTGAAGAACCATACTTTA AAAAAAGAAAGGAAGACAGGCAAA CAAGTGTITTTACAGGAGCAACAGACT TCAAGGTCACCCCCACAAGACACCCT GCACAGCAGGGACGGGGACAGGGAG GATGACCTCTTAGGGCCTGTGCCTTC GCAGAGGTGCTCGGCGGATGGGTGT GGTCTTCTTGGGTGTCTCCTCTTCTGT CATCTATGCCGAAGCTT (SEQ ID NO: 280)
CTP103JJ	No significant match		AAGCTTCGGCATAGTTACTGTTTGAT TTTAAGTTTTTATATAGTTCTTAGITT TGAAGAAATCCTTCAAGAACAGTTTC TCTAAAGAGCATGTTTTAATTAAATG CTAATTAATTACCTTTCTTAGTTTTCC AATTTAGTAGGCCACTTTCAATGTCT ATTAAAGTGAAATAAACCTTCTGAAC TTAAACATTTTTTAAATCGATTAAAAA TTGTGTCAAAAT (SEQ ID NO: 281)
CTP104I	No significant match		AAGCTTTTTTTTTTTTCAAAACGGATTT GTAAAAACTGTATTTCTTACACTGTG CACAAACCTTTTATACTAAATAAATA TCAAACCTACATTCTTCAGAAAGATGT TTCTAGTATTTTTCTTAGGTCACCTCC ATATGTAGTATGTACAGTGAGACCAC TTTTTAAAAAGCAATGACTTAGGCAA ACCAACCCTAATGGTTTGTAGACCA TTCCCTGTTTTTAATTAAAAATCATA GGGTTGTGCTTCTGTATAAAGTTTGT ACATTTTACAATGTAAATACTGACA TT (SEQ ID NO: 282)

Band #	Genbank Gene Name	Accession	Sequence
CTP109P	No significant match		ATGCAACCACACGGAATTTATTGAAC ATTTTCACAAGTGATTTTCATTAAAGG AAGGCTTTTTTCGTGCCTATATTGGTT ACCATCACTTTTGCCCCCTATCACAAT CTCATGGTGTAGTCCTTGCATGTAGC AGGAACTCAACAAATGTCTGCTAAAT TGACAGATGGAGCCCCAGACGACCT AAAAATTGCACTTTAGAAGCACTTAC TTCATCCTGAGCTATTATGAATAAGG AACTCAAGTGACTGTAAAGCATTC TACTGATGAGTTGGTAATGTTCTAAA GCAACATATCTCAAAGGAAAGGATA TTGAGTTTGTCTCCACCATAAAATCC TATTTTAAACAAAGGTAATACTTAA AAATGGTCTTCCAAAGGCCTCAGCAG AGGTTCTAAAGAGATGTGACAATAT GCCGAAGCTT (SEQ ID NO: 283)
CTP110A	No significant match		AACATATAAAAACATTTATTCCTAG GAATAATTGTGGCAGACACAATCCA GTGAAAGCAGCTCAATCCTGCTCAGT TAGGCTAGTTGAAGAACCATACTTTA AAAAAAGAAAGGAAGACAGGCAAA CAAGTGTTTTACAGGAGCAACAGACT TCAAGGTCACCCCCACAAGACACCCT GCACAGCAGGGACGGGGACAGGGAG GATGACCTCTTAGGGCCTGTGCCTTC GCAGAGGTGCTCGGCGGATGGGTGT GGTCTTCTTGGGTGTCTCCTCTTCTGT CATCTATGCCGAAGCTT (SEQ ID NO: 284)
CTP111A	No significant match		AAGCTTCGGCATAAACGATCCATTCT CCTCGGCCTCCCAAAGTGCTAAGGTT CCAGGCGTGAACCACCATGCCCAGC CTGTTCTTTTTTTATCTCTAGGTGGT GCTCTCCAGCTGTAGTAGAAATAGCA TTTGTATTGGATCTATTTTTTAAATA GGGACTAAATACAGACCAATTTTGTTA GAGTGAAATGCCAAACAAGAACGAG ATTTTCTCTTGGCT (SEQ ID NO: 285)



Band #	Genbank Gene Name	Accession	Sequence
CTP112B	Bos taurus peroxiredoxin 1 mRNA	AF305561	CTCAGTTCAAGTTTAATAGAAACAAC AAAAGATCAAAAAGTGATGCCTTGCT ACTACTGTACATATCAGTTGGCCTGC CCCATAGCACACCTCAGACCATCCTC TCCAGAGGAAGAAAGGCTGGCCTCC CCAACCCCTGCAGGAAAGGGCGGTC TTGTCCCATAACCACATACCACATCTG CAGAGTCTAAAGTCTTGTTATAAGCA TGACAATAGTACAAAAAAGATTCT GTTTTCATGGATCCCCCACTACAGCC CGGACCTAAAATGGCGAGGCGCTCA CTTCTGCTTAGAGAAATATTCTTTGC TCTTCTGGACATCAGGCTTGATGGTA TCACTGCCAGGCTTCCAGCCAGCTGG GCACACTTCCCCATGCTTGTCAGTAA ACTGGAAGGCCTGAACCAAGTCGCAG TGTCTCATCCACAGAGCGACCAACAG GAAGGTCGTTTACAGTGATATGCCGA AGCTT (SEQ ID NO: 286)
CTP113A	Bos taurus ribosomal protein L30 mRNA	AF063243	CTAGTTAGAGTCAGATGTTTATTTAA AAATCTGATCCACTAAAACCTAGCGT TTTCCACCAACTCGGGGTGCGGAAAC CTTACAGGCTTCACAATCTTTTGCTT AGGTGCTGCCTTTGTGGGAGCCTTAG CAGCAGCCATTGCTGTCTTTTAGAT GCTTGCTTAGCCTTTTTTGCTTCCTTG GCAGCCCTGATGGCCTGTTCTCGTTG AGCCTTCCTAACTTCAGGTTTCTGAT TCCTCTTAGCCATTATATCAGCAAGA GATGCCCCAGTGATGGCCCTCTGGAA TTTGACTGCACGGCGGGTTCTTTTCTT CTGAATTCTTCCGACTGTCCCTTTT GTGCTTTCTTCTGTAGAGGACAGTCC AGTTGATATGCCGAAGCTT (SEQ ID NO: 287)

Band #	Genbank Gene Name	Accession	Sequence
CTP115B	Homo sapiens chromosome 17, clone hRPK.227_G_15	AC005899	CTAAGGTGATATAGAAGTGGACTAA GGGAGAGCCAAAGTTGGCAATCCCA TTAATCTTACAACCTCCTAAATTATG GCAATCACAATGCCTGCCTGAATGAA TATAGCAAGTCCTAAAGGATGTCTTC TGTGAGGGCAGATGGAAGTTTACTTC AACTCAACTCCATCTACTATTTAAGG GAAGGATAAGTCAAAGTAAGAGTTA ATTATTTCAACATGGTTTGTTCATTTC ATGATTTAACCACACTATGGACCCCA GAAGCAGTTAGGTAAAAGGGATTTT CTAGAAGCTTAATTATGCCGAAGCTT (SEQ ID NO: 288)
CTP116A	No significant match		AAAAGAGCATACTTATCAGTTGAATG GGGATAGAGGTTTTAGATATTTTCCA AAATATTTATAAAAACACTTCATTGTT GAGAAATCACTTACAGAATGGTGGC TATCAAACAAATAATTATAAATTTT AAAGCACAAGTCACATGTTTTGTAAC TCCTGTGTGAATTTATTTTAGCTGTG ACATTTAATTGAAAACATCAGATATG TTTTGGAAAAGTCTTAATTTGAGAAC AACTGAAGGAAGTTAATCCAGAATC TATATGTAGTTAGCTATTAATGATGA TGCTTTATTGACAGTATATTGCTAAT ATATTTCTTCATGAAATCTGAAGTTA AATAGTTTCGTTGTGGAATAGTGTC CTGTAACATTTCCCTTACGAAGTTCA ATAAACCAGCTTTGCCATAAAAAAA AAAGCTT (SEQ ID NO: 289)
CTP117B	Homo sapiens similar to J KAPPA-RECOMBINATION SIGNAL BINDING PROTEIN (RBP-J KAPPA) (M. musculus) (LOC82995),	XM_017740	AAGCTTTTTTTTTTTAAGCTGATGTCT TATGACTTTTTATGAGTCGAAATTGT TTTGATTTCAAGCAAGTCAAATCTTGT AAAGGCCCCGCGTATTTTTTTAAGAT TATATGAAGTCTGTGCAAAAGCTTTA AAAAGAAATGCCTCTGCCTTGCCCTGC AATACATGCAATGTACGTTAACTTCG TCTCTGTCCTCAGACACTGTCCGTAT TACTTCCTTGTTTTCTTTTCTTAA T (SEQ ID NO: 290)

Band #	Genbank Gene Name	Accession	Sequence
CTP119J	Homo sapiens SPR-2 mRNA for GT box binding protein	X68560 S52144	CAAAAGAAAAAAAAATAGTGTTTTATT AACTACCACACTGTTATAATACACTT TAAACGTACAATAAGGTAGCCTTTAA ATTTGAGGTGGTCTTAAGAATAACAA ATGAACAGAATTCCAAATTTTTGAAA TAGGTGAACTGCTGTAGTTATAGGTA TACATTTAGGAAAATTGTATAGCTTT TACAAGACCAGCAATGAACTTTATT TTGTACATTTTTTTAATAATTGAAAA TATAACAATAATTAATAAAATAAAA GAAAATACAGCATAATAAAAACAT ACATTTCTCAATTAAATGTACTGGAT ACATATAAATTTAAAGGGAAGAAGC AAAAAAGGAAAATGGTTGATATTTA AGTGCAGACTGACTACCTAGACGAA AAAAAAAAAGCTT (SEQ ID NO: 291)
CTP121D	Human ribosomal protein L23a	U43701	AAGCTTCATTCCGACGACCCAAGACC CTGCGTCTCCGAAGGCAGCCNAAAT ATCCTCGAAAGAGCGCCCCCAGGAG AAACAAGCTTGATCACTATGCCATCA TCAAGTTCCCCTTAACTACTGAGTCA GCCATGAAGAAAATAGAAGACAACA ACACACTTGTGTTTCATTGTGGATGTC AAGGCCAATAAGCACCAGATCAAAC AGGCTGTGAAGAAGCTCTATGACATT GATGTGGCCAAGGTCAACACCTTGAT CAGGCCTGATGGAGAGAAGAAAGCA TATGTTTCGACTGGCTCCTGACTATGA TGCTTTGGATGTTGCCAACAAAATTG GGATCATCTAACTGAGTCCAGCCGG CTATAAATCTAAATATAAATTTTTTC ACCAT (SEQ ID NO: 292)

Band #	Genbank Gene Name	Accession	Sequence
CTP122I	Human mRNA for KIAA0033 gene	D26067	AAGCTTTTTTTTTTTGGGACTGCTTTT GATTAATGCAGTTATCCAATTTAAGT GTTTTACTTTAACTCAAAGTAAAAA GAAATTCTCACATGGTAACTACTCTA TTAAATGGTCCTGGAAACATTAAAC AGCTTTCTGCTGCTTGCTTAATGGTA ATACCTTTGATTTCTTGATTCTAGGA CATAGCTGATTTATTAGGTAAAGTAC TCTGTCAATTTTACCTTCACCCAAGA CTGTCATGTTTAAAATACTTTAGCTG TGGGAGAAATCCTTGTCTGTTTTAT TGTGAGAGGAATGGTCATCCTCAAA GTCTGTTTCTACTACATAATGTGGAC TAATTATTTTTTCTATCACAGTATTAA CAAATGGATTTATTGTAAATACAAAG AAGATATTAATATACTATTCTTATGT C (SEQ ID NO: 293)
CTP124B	No significant match		ATGGCAAAGCTGGTTTATTGAACTTC GTAAGGGAAATGTTACAGTGACACT ATTCCACAACGAAATTATTTAACTTC AGATTTTCATGAAGAAATATATTAGCA ATATACTGTCAATAAAGCATCATCAT TAATAGCTAACTACATATAGATTCTG GATTAACCTTCCTTCAGTTGTTCTCAA ATTAAGACTTTTCCAAAACATATCTG ATGTTTTCAATTAAATGTCACAGCTA AAATAAATTCACACAGGAGTTACAA AACATGTGACTTGTGCTTTAAAAATT TATAATTATTTGTTTGATAGCCACCA TTCTGTAAGTGATTTCTCAACAATGA AGTGTTTTATAAATATTTGGAAAAT ATCTAAAACCTCTATCCCCATTCAAC TGATAAGTATGCTCTTTTAAAAAAA AAAGCTT (SEQ ID NO: 294)

Band #	Genbank Gene Name	Accession	Sequence
CTP126A	No significant match		AAAGAAAGTAATTATGGAAGTAGAT TTTAAACATTGTAAAATACTAAATGA TCCTTCAGTTGTAAAGTTGATATATAT TTGTAACCTTTGTGAAATTGTATCCTT ATGAAAATACCACTTTTGTGGAAGAG AGAATCCAACATATGTAATATTTAATT AAAACAATCCATGTTTACCCTATCCC TGCTCAATTAAACAGTGTATATAGGT CTAATAATAGCTCTGGAGCAACTTTT ATCATGAGTCAAATATATTAAACACA TTGATGTCTTCTTGGTATATCTGAAA ACAAGAGGTTAGAAGTCCTGTTGAGA GTCTTTAAAAATAAACTATTTTTACAA ATGTAAAAAAGCTT (SEQ ID NO: 295)
CTP129A	Homo sapiens, Similar to cadherin 1, type 1, E- cadherin (epithelial), clone MGC:1151	BC007583	AAGCTTCATTCCGACGACCCAAGACC CTGCGTCTCCGAAGGCAGCCGAAAT ATCCTCGAAAGAGCGCCCCCAGGAG AAACAAGCTTGATCACTATGCCATCA TCAAGTTCCCCTTAAGTACTGAGTCA GCCATGAAGAAAAATAGAAGACAACA ACACACTTGTGTTTATTGTGGATGTC AAGGCCAATAAGCACCAGATCAAAC AGGCTGTGAAGAAGCTCTATGACATT GATGTGGCCAAGGTCAACACCTTGAT CAGGCCTGATGGAGAGAAGAAAGCA TATGTTTCTGACTGGCTCCTGACTATGA TGCTTTGGATGTTGCCAACAAAATTG GGATCATCTAAACTGAGTCCAGCCGG CTATAAATCTAAATATAAATTTTTTC ACCAT (SEQ ID NO: 296)
CTP131B	Homo sapiens similar to sperm autoantigenic protein 17	XM_006087	AAGCTTCATTCCGGGGACACATAGCC AGAGAGGAGGCAAAGAAAATGAAA ACAAATAGTCTTCAAAATGAGGAAA AAGAGGAAAACAAGTGAGGACACTG GTTTTACCTCCAGGAAACATGAAAAA TAATCCAAATCCATCAACCTTCTTAT TAATGTCATTTCTTCTGAGGAAGGA AGATTTGATGTTGTGAAATAACATTC GTTACTGTTGTG (SEQ ID NO: 297)

Band #	Genbank Gene Name	Accession	Sequence
CTP133B	No significant match		CCAAAAAGAGCCATGCCCAGAGGGA AAGTTGGAAACGAAAGCCAAGTTTT CATTTAAAAGGAAACANTAAAGAGG TTAGCCAGAGAAACTTGAACCAAAG AAAAGACAGCACGCTGTTTCAGAATG GTCAATAAGAGCCTAAAACGGTACC CTCGGAATGAAGCTT (SEQ ID NO: 298)
CTP134A	No significant match		CCAAAAAGAGCCATGCCCAGAGGGA AAGTTGGAAACGAAAGCCAAGTTTT CATTTAAAAGGAAACATTAAAGAGG TTAGCCAGAGAAACTTGAACCAAAG AAAAGACAGCACGCTGTTTCAGAATG GTCAATAAGAGCCTAAAACGGTACC CTCGGAATGAAGCTT (SEQ ID NO: 299)
CTP135A	Homo sapiens cDNA FLJ11508 fis, clone HEMBA10021 62	AK021570	CCATCAAATGTAATTTATTTAAATAA CAATTCAATTGCATGTTAAGTAAACC AGTTGTAGCAATATAAAAAATACAGA ATTTTGAGAAAATCTGGCAAATTA CCTGTATCTAAATGCAGCATATTCTG TGATACTACGGAATGAAGCTT (SEQ ID NO: 300)
CTP143B	No significant match		AAGATTTCAAAGAGTGAGCAAGTGC ATTAGCAGGGCAGAGAGAGAGGCAG CAGCAGACTCCCTGCTGAGCTGGGA GCCAACTTGGGACTCGATGCCGGGA CCCCAGGATCATTACCCGAAGCTT (SEQ ID NO: 301)
CTP144B	No significant match		GGGTAAATCCGTCCAGTTTACTGTAA ATATGCCTTTGACAACTGGTAACTC ATGTCCCATCCCAGTCCCGAGTACTG GACCAGGGAAACTCCAGCCACAGTT GAGGGAAGGCCACCTGTTGGCTCTG GGGCAGCAGGTCATCCAGTGGGCTTC AGGAGTCACCAGGCCTCTGACCAGTT CCTCCCCACCAAGCAGTTTCAGAGTT GTCCGCCAAGTCTATTTACACCTCT CGTGTATGCCGAAGCTT (SEQ ID NO: 302)

Band #	Genbank Gene Name	Accession	Sequence
CTP145B	No significant match		GGACTGATAATAATAGGATTTTATTT CTAAAATTTATCTTAGAGCTTTCAAA GAGTATAACACACAGATCTTTACCAC CACACCCCCCTTGCCTATACAGGAAA CAACCAAGTTGTGAGAACATTTATCA TGCACAGACACATCAGGGCTTGCAG GTGCTACACAGGAATCACAAATGCT GTTCCACATCATGTCTTCTGTTATGCC GAAGCTT (SEQ ID NO: 303)
CTP148B	Homo sapiens serine- threonine protein kinase (MNBH)	AF108830	AGCATATGTAAGATCTCTGGCTTGTA GAAGACAAGTTTATATAGCACTTAA AAACCATTTGTTACATTAAATGTCTGA ACTCAAACCTTTTAAAGAGTATAGAGA ACTACAAAATGGAAAAAGGAAGCAG ATATACGCTTTATGAGGAAATTGTGT TAATGATCTCTCCTCTAAAAAAGGAC TCTTCCCTATTATCATAATGACCACA CTGCCCGTCCTTAAAACCACTGGTCG CTGACATTATGCCGAAGCTT (SEQ ID NO: 304)
CTP149B	No significant match		AGGAAGAATAAAAAACATATAAAAAAC ATTTATTCACTAGGAATAATTGTGGC AGACACAATCCAGTGAAAGCAGCTC AATCCTGCTCAGTTAGGCTAGTTGAA GAACCATACTTTAAAAAAGAAAGG AAGACAGGCAAACAAGTGTTTTACA GGAGCAACAGACTTCAAGGTCACCC CCACAAGACACCCTGCACAGCAGGG ACGGGGACAGGGAGGATGACCTCTT AGGGCCTGTGCCTTCGCAGAGGTGCT CGGCGGATGGGTGTGGTCTTCTTGGG TGTCTCCTCTTCTGTCTATCTATGCCGA AGCTT (SEQ ID NO: 305)
CTP150A	No significant match		AGCATATGTAAGATCTCTGGCTTGTA GAAGACAAGTTTACATAGCACTTAA AAAACCATTTGTTACATTAAATGTCTG AACTCAAACCTTTTAAAGAGTATAGAG AACTACAAAATGGAAAAAGGAAGCA GATATACGCTTTATGAGGAAATTGTG TTAATGATCTCTCCTCTAAAAAAGGA CTCTTCCCTATTATCATAATGACCAC ACTGCCCGTCCTTAAAACCACTGGTC GCTGACATTATGCCGAAGCTT (SEQ ID NO: 306)

Band #	Genbank Gene Name	Accession	Sequence
CTP150C	Canis familiaris mitochondrion	CFU96639	AGGATCCTCATCAATAAATAGATACA TACAAGAATAGCCAGACTACATCAA CAAAGTGTCAATATCATGCAGCGGCT TCAAATCCGAAGTGGTGGTTTGATGT GAAGTGGTAGTATAGCTGTCGGAGG AAGCACACGATGAGGAATGTAGAGC CAATAATTACGTGTAATCCGTGAAAT CCAGTGGCTATAAAAAAGGTAGATC CGTATACCCCATCGGAGATTGTAAAA GATGTCTCATAGTATGCCGAAGCTT (SEQ ID NO: 307)
CTP154A	No significant match		AGCATATGTAAGATCTCTGGCTTGTA GAAGACAAGTTTATATAGCACTTAAA AAACCATTTGTTACATTAAATGTCTGA ACTCAAACTTTTAAAGAGTATAGAGA ACTACAAAATGGAAAAAGGAAGCAG ATATACGCTTTATGAGGAAATTGTGT TAATGATCTCTCCTCTAAAAAAGGAC TCTTCCCTATTATCATAATGACCACA CTGCCCGTCCTTAAAACCACTGGTCG CTGACATTATGCCGAAGCTT (SEQ ID NO: 308)
CTP156J	Human DNA sequence from clone RP5-975D15 on chromosome 1p31.3-32.2	AL136120	AAGCTTCGGGTAACCACTGCTAATAA CTAAAATACTCTAACTTGGAATAATC GACTCCGACGTCTTTATTTTCCAAG TTGCCTTTTCTTTAAAAACACCTTTTC TGATTTAATACGGAATAACGGTCTTC TTTTCCACTCGATAACTATGGTGTCC TCTTGGGTTACTGCTTAAGAAAAGTT GGTTTGGGCCATTTCG (SEQ ID NO: 309)



Band #	Genbank Gene Name	Accession	Sequence
CTP161B	Canis familiaris TCTA gene, AMT gene, DAG1 gene and BSN gene	AJ012166	AAGCTTTTTTTTTTTGAAGATACAAG TTAGAGTTC AATCAGTACCAAAGGTA AGGAAAAATTA ACTCTATGTACACA GTCGAGTTTATCCTGCTTAAAATTG TCAAGTAGAGAAAATTCTGAAAATA TTTATGAAAAAGCTATTCTCATGCTG GCAGCAATGGTTAAAATAAAGATAT TTCCTTTATTAAAAAAGAAAAAGCCT AAAAACA ACTTTAAATAATCAAGTT GCTGTGAAGTGAAAGGGTTGAAAG TGATGAAACTGAAGTTAAAAGTTCTC TATATGTGTGTTTTACTTTAAGCAAA TTAGACATAGTGAATAAAATTTGAAT TTTCAGACAAATTATTTGCTTTTTTTT TATTTTATTTATTTATTCATGAGAGAC ACAGAGAGAGAGAGAGGCAGAGACACA GGCAGAGGGAGAAGCAGGCTCCACG CAGGGAGCCCAATGTGGGACTCGAT CTGGGAACTCCGGGATCAAGCCCTG AGCTGAAGGTAGACACTCAACCGCT GAGCCACCCAGGTGCCCTGATTTGCT TTTTAAAGAAGTCTCCCCCTTCC (SEQ ID NO: 310)
CTP164A	No significant match		AAGCTTCGGCATAACGGTGTGAGGTTA CAGTCCAGTTTTGTGTGCTTTACTAC ACGGTTTGGTTACAGGACTTCTGTGC ATTGTAAAACATAAACAGCATGGAA AAGGTTAAATACCTGTGTGCAGATTG TAAGATCTGGTCCGGACTTGCTGTGT ATATTGTAACGTTAAGTGAAAAAGA ACCCCCCTTTGTATCATAGTCATGCG GTCTTATGTATGATAAACAGTTGAAT AATTTGTCCTCAGACTCTTTACTATG CTTTTTTAAAATTAAGAAAAATGTAA ATATAGTAAAAATCTTCCTATGCAAT TAACCTGG (SEQ ID NO: 311)

Band #	Genbank Gene Name	Accession	Sequence
CTP178B	Homo sapiens mRNA for KIAA1524 protein	AB040957	AATAAGGCTTCATCTAGATTTTTTCT GTGAACTGAAGTTGGTCAAGGATTGT AGGCAGCAGAAGGCTCACAAAACGG TCAGTTGAGGAACAGTTAGCAGTATC TGCAACATCCTCAAATATTTCTTGA ACAACTCTAAGGCTAGAAGAGAACA GTTTTCTGATCTGTCCAGAGGTTGGT TTGACCAACGCAGTAGAGCCACAGT AGGTTCTAAACATTTAGAACGGCTTC CCAGAATGGTGTGCCAGATGGAGA CTGTTCAAATATCATCTGAGTGAGCA CGTGGCGCAGCTGAGTCACTGAACA GAAGGCAAGAAGTAATTCTAAAACC TTTGAAGAAGAATCAGGATCCTTTCC ATTGAGAAGACCTAATACTTGACTAA GACATGAAGAAAAGTGCTCATACCT GGTAAGCTT (SEQ ID NO: 312)
CTP179K	No significant match		AAGCTTACCAGGTAGAGGGACTGTT GGAGGTATGGACGCACACAGGAGGG CCAGGCCAAGGCACGAGTTTTTCAGT GAAGGGGGTAAAGCATCACAAATTA AAATGTTTGCAATTAACTGGTTTGT TAAATATC (SEQ ID NO: 313)
CTP185C	No significant match		CAGCGAAGAGGCATTAAAGATTCAT GCCATAAGTTTATTTACAAACATGTT GTGTATGTTGAATTCAAGAGATTGAT CCATTTTTCAGAGACTGCACCTCTTA AAATGTTCCTTTTACATCTGTTTAGT GGATCAAAAGCTT (SEQ ID NO: 314)
CTP197A	No significant match		ATGGTGTGTGTGTGGGTTCAAATAGT TTATTCACCTCTGTAGTGGA AAAACA AGGAGAAATAAAATCTGCTTACAAT GGCCAAAATTTATGGAGAAGCCCTA AAGTTGCTTTCCCCAAATCACAAATC TGATTCAAGAGAAGGAAAAAAATGA TGAAAAACATCTCATCACAAAACT CAGTGTGGTGTCTCTGATAGTCATCA GCCAGCAGAAGCTT (SEQ ID NO: 315)

Band #	Genbank Gene Name	Accession	Sequence
CTP201B	Homo sapiens, exostoses (multiple) 1, clone MGC:2129	BC001174	ATCATTTCAAAAATAATCATTTAATG TTCCATAATTAACTGTACACGACCT AGTCTTGGGACATAGAAGCCAGTGA GGTGAGTTTGGAGCAGTCCCAGGAG CCAGGAGTCGAGTTTTTCATTGGCCTT TTTTTCTTTTTCTTTTTGTTCATTCTG TTCATCTAAGATTATTTGGATACTTG GCACAATCTGGCTCTGCTGCTAAGCT T (SEQ ID NO: 316)
CTP202C	No significant match		AGAAAAAAATTGATAATTAGGTGC AGATAGAAAATATGAATTAGAAGAG GTTAATTCAAGTGATCAGCCTGAAAG TTCAGCTTCATTAGCTTTGTGGTAAA TCCACCACTTCAGATAGTAACTAAAG TAAATTTTAAATTCATAAGAATAAA GTAATCCCTGAAAAGAATTCACITTT TTCCCAGAAGAAGCTTATAATTAATA AAAAAAGCTT (SEQ ID NO: 317)
CTP205D	Homo sapiens similar to J KAPPA-RECOMBINATION SIGNAL BINDING PROTEIN	XM_011187	ATTAAGAAAAAGGAAAGCAAGGAAG TAAATACGGACAGTGTCTGAGAACA GAGACGAAGTTAACGTACATTGCAT GTATTGCAGGCAAGGCAGAGGCATT TCTTTTAAAGCTTTTGCACAGACTTC ATATAATCTTAAAAAATAACGCGG GCCTTTACAAGATTTGACTTGCTGAA ATCAAAACAATTTCCACTCATAAAAA GTCATAAGACATCAGCTT (SEQ ID NO: 318)
CTP206A	Homo sapiens fatty acid desaturase 1 (FADS1)	NM_013402	CAGGCTGGTGTTATAGGTGAAGATA GGCATCTCTTACAGATGGGGGTGGG GGCTGTTGTTACTGGTGAAGATAGGC ATCTAGCCAGAGCTGCCAGACTCCT TCAGTGAGTAGATAATGTCGGCGAA GGCTGAGAGCAGGGGCTTGGACTGG TACTCTATGCCATGCTTGGCACACAG GGACTGCACCAGGGGAGCCACTTTAT GGTAATTGTGTCGAGGCATCGTAAGC TT (SEQ ID NO: 319)
CTP208B	No significant match		CTAGAGGAAGTGCTTTTTATTTTAG ATCAACCAAACATATTTAATAATAAAA ACCTTTTAATATACAACTGTAATCA CAATTGCATCCACGTAGCAGCGAGG GAATGGGGTGTTGCAGGAAGCTT (SEQ ID NO: 320)

Band #	Genbank Gene Name	Accession	Sequence
CTP215B	No significant match		AAGCTTAGAGGCAGTAAACAGGAGC GTCCCAAGAAAAAGAGGAAATTCT CTTCTAAGGAGGAGCCACTTAGCAGT GGACCTGAAGAGGCTGCTGGCAACA AGAGCGGCAGCTCCAAGAAAAAGAA AAAGCTCCAGAAGCTATCCCAGGAA GATTAGAATGGACATTTTACCAGGTG GGGCAAACCCACATGATTCCAAACC CACCTTATATCCCAATAAAAAACAAA TTCACAGG (SEQ ID NO: 321)
CTP216A	Canis familiaris heat-shock protein (HSP27)	U19368	AGGCAGTTGCTTTGAACTTTATTTGA GAAAAACAAAAGGTAAATGTATCAA AAGAGCATAACAGGTTAGTGTGCAGG GACGGTCAGTGATGGCTACTGAGGT GAGGATGTGGGCTAAGCAGGGCTAA GGCCTTTACTTGGCTCCAGACTGCTC CGACTTTCAGCTTCTGGGCCCCCAA TCTGGGCACGTGCCTCTAAGCTT (SEQ ID NO: 322)
CTP222D	No significant match		AAGCTTACCAGGTGAAGAGTGGGGT TGTCATGACCTTGGCTATGACGCCCA GCATTTTCGAGGTGGCTCCCTCTATTC TTTACTTTGGGCATCATAGAAAACGT GTCTCTGGGGGATTAATCTTAGAGAA AAATAAAGCCTTTCTGCTG (SEQ ID NO: 323)
CTP300B	Homo sapiens utrophin (homologous to dystrophin) (UTRN),	NM_007124	CCAAGGTTACCAAGCTTTCAACAAG CACTGTTCTTCTAATAATTCCTGCCA CAATATATTAATTTCTTGTAGCCTAC TCCAACGTTCTCTGTCCAACGGCAC ACTGCTGTCCAGCGTTCACCAAGCTT (SEQ ID NO: 324)
CTP304B	Homo sapiens unknown mRNA	XM_002211	AAGCTTAGCAGCACAGCACACCAAC ATATACAAACACCGAGTGACTACAG TACATGCCGAGGTAAGAAAAGTACA TTCGGGGAGACTATCACTGACACTCA AGCCATTTTTATTTCCAATATGTTTTG CTTTCACCTTTCCAGTGCCAAAAAA AAAAAACCTAGTCACAAATTGGAG TAAATAAGAATCGGTGCCAGTTGACC T (SEQ ID NO: 325)

Band #	Genbank Gene Name	Accession	Sequence
CTP306B	No significant match		AAGCTTCTGCTGGTATGGAAAGCCTTC AAGGAAGAGGGTAATGAGGGGGAAGA AGTGCTGTGCCAAAGTGACAGCATTCA GTGAGGAATAAAGAAAGGAGCTCAGTG GTAGCAGGATGTTGAGCTTCCAAGAAA ATCTGGTGGTGGTGAGAAAGTGGCTGC TGTGCACTGCAAGGAAACAGAGCGATT AAAGAAAGAGATGTGACAGGGTAGGT GGAAGAGATAGCCAGAAGTTAGAAATG GGTTACACTGAAGAAGTAAATTATTTG ATTAAACAATAAGTAAATATACTGGGG ATAACAAAAGCCTGATTTCTCCACTGTC TCAGAAGGGATTTGCAAGTATGG (SEQ ID NO: 326)
CTP308KK	No significant match		AAGCTTTCTCTGGATGAACAGTTAAAT GGAACCTGGAAACCTCTTCCTGGGATT ATTCCTTAAGCAAGGCAGTGTCAAAGG CAACCCTCCCAGCAAGACTTCAGAAAA CAGCTGGCAGAACTACAGGATCTGGTG TCTGGTGTGTAAAATACTCTCCTCCCTG TTCAAATGATTTCAGAACATGTGCAAAG TGTGCTAGCTTTCATCACATATACATAA CAGCATTATGTATCAAGTTACCCTGTTC AAACAAGGAGCAGGCTTCCTCTTTTTG ACTTAAATGACATGAAGTGAGAAAAAA AATGAGAATAACCNTCNNGGGAATTAT AGAGGGTTATAATTCTATCCCNACTATT TCAATAAAAAGCCATCACGGG (SEQ ID NO: 327)
CTP309A	No significant match		AAGCTTTCTCTGGCTTTCCGAAGGTAAA ACTGTTGCCGAAGTTGCTGCGTTACAA GAGCGTATCCCAGAAACCATAAGGCTA CAACGCCGAAATTGGGAGCTACATCAG TTTGAATCGATTCAAGAAGGTCATCGCT CAGGCCGTCCCAATACACTGACCTCAA ACTATCAGGCTCAAATCTTAGAGTGGG TCAACACAAGCCCACTCAATGCAGAAC AAATCCGAGTCAAACATGCATGAAAAAC ACGGTGTGTCCGTGTCTGTTGAAACTCT TCGCAAGTTTTTTCGAGATTCAGGCATG GTCTTCAAACGCACCCGCCACAGCTTG (SEQ ID NO: 328)

Table 8

Band #	Genbank Gene Name	Accession	Sequence
CTP1D	No significant match		GACTGAGACCATTATTTCNAGACACGCA GCTGACCAAGGAGTGAGGGAGGGACCA GGTGTGCAAGCTAATAAATAGAGGAGG GGGAGACTTCCTGGAGCTGTAGCCATTC AGTCTTCATTCTTCTCAGGCATGAAGGC ATCTCTTTTCTGACCAAAGCTT (SEQ ID NO: 329)
CTP1G	No significant match		AAGCTTTGGTCAGCAATTATATTAGTTT GCATTTTAGTGACAGGTGTAAGAGAAAG GCCCCCTTCTCCCTTACTGGGACAAATCT AGAAATCTTACACAGATGTGCAAATAAA GCTCGCGTGGTGTTT (SEQ ID NO: 330)
CTP4B	No significant match		GAGCAGCAGTGAGCAAAAACCCACGAAG TTGTTTTAAGGTTACAGCTATGAATAAA CATGTCCAAACAATGAAGATTTAGGGC TGAAGAACGAGCGTATGTCTACAGTCGA AGCTT (SEQ ID NO: 331)
CTP7B	No significant match		CAGGTGCAAGAGGTTTGTGTTGGGAGGTA ATCCTAGAAACCACAGAAGGGGGTGGG GATAGGAGGGATGGCAGGAAAACCAAGT AAGAACTGTGTTATTGAGAAGGTTATCA CTGTGGACAACCTGGCACAGAATACACTT CAGAGCTGTCGCCCTGAGGGACAATGAC GCCAAGGTCTTTTTCTCTAAGTCCTGTTT CTTATAGGCCGAGGGTGGCTCCTGGGAG CAGTAACTGCCAACAGTCGAAGCTT (SEQ ID NO: 332)
CTP8A	No significant match		AAGCTTGATTGCCCATACTGAGCCATT GATATATTTGAAAATTATGGCACAAATG GAAGAGAACCACATTTGAAAAGCTTCCA GCCTTTCAACAGAAGATAACTCTTCTTG TTTTGCAGATTGAGCAGATAATTTCTTTT GAAGGTGATAGTTTCCTAAATTGGATAA AACCGTGGCTGCCATTATATTCACAGAA AATAAAATGAAAACCTTCAGTTAATTGTG GATTTG (SEQ ID NO: 333)

Band #	Genbank Gene Name	Accession	Sequence
CTP17G	No significant match		CATATATATTCTTTTTATTCTTGTATATA CCTTCCCAAAACAGAGACATTCAACAGT AGTTAGAATGGCCATCTCCCAACATTTT AAAAAACTGCACCCCCCAATGGGTGA ACAAAGTAAAGAGTAGTAACCTAGAGTT CAGCTGAGTAAGCCACTGTGGAGCCTTA AGTGGTGAGGTCTTCCAATTTCAAGAGTG ATGTGTCTTCAACTTGTATCATCATTTTA GCGGTAAAAGCTT (SEQ ID NO: 334)
CTP18B	No significant match		CCAAAGAAGTGTTTATTAACATTTGGGG CCTCAGCGGGGCCAGAGAGGAAGTGGG TGCTAGAGGCTCCTGAGGCTCAGGGCAA GGCCTGCAAGACAGATCCCATTGCTCAG GAGGCAGCCCAGATTGCAAATGGAAGA CAGG (SEQ ID NO: 335)
CTP25D	No significant match		AAGCTTGCACCATATATATAACTCTTGG GCAGAGGGTCTGGCATAACATAAGTAGAT ACTCAGAAATATCTGTTGGATTGTGTTG ATTTAATTATTTTGTGTTGCTTCTTTTA AAGATGAGCACTTTCTATTAGATATTTTT TTGATCAAAAAAAGATATTTTTTTGAT CATACAGATTTAAGCAGGATTTTTATTA ATTCGTTTCTCTTCCTGGTTGG (SEQ ID NO: 336)
CTP31A	No significant match		GGGGCAGATAAAAAACACTTAATGTAAA ATTTACCCTCTCAGAAAAATTTCCAGTA TGCTATACGGTATCACTAACTATAGTCA CTATAGTATACAGTAGATCCCTAGGATT TATTCATGATGTACAGTCGAAGCTT (SEQ ID NO: 337)
CTP36A	No significant match		CAAGTTTTACCATTGTTTTAATTATTGAA ACAAAATTAACGTAAGTAGAATCATGTG CAACAGTGTCTCTAACATATGGAAGAGG TAAATATGAATTTTATACAATAAGGTAT ATTATCCACTGTAACAAATTTCCAATAA TTTGGCATTATCTTTACAAAATGTCTC CCAAATTCTAAGCAAAGTATGCAAATTG GAGATTAACCTCTAAACAGGCATAAATTAT CTTCTTATCCAGTTTTTCTGAAGAGACTG AAGAGTTCAGGTCTGACCAAAGCTT (SEQ ID NO: 338)

Band #	Genbank Gene Name	Accession	Sequence
CTP47G	No significant match		AAGCTTGCACCATACTCCTCCTCTACAT ATGCTCCCAAATTACCTTCTAAAAAGGC TGTATTAATTTACTTTCACCAGTAGTATT ATGAGAGTGCCCATGTCCCTTAGCCTTTT AAAATTCACTATGAGCAATCTTTAAATC ATGTACTAAATCTTATAGGCAAAGAATA GGGCCTTGCCCCTGCCCTGTT (SEQ ID NO: 339)
CTP50A	No significant match		ATTCCTTTTCCAAGGACCTCTCTTCTATG TGATCACTGAGTAAGTTCAGTCACTCCC ATCATCTCTAGATTGGAGATTTCCAAAT TTATGGCCTTTCCTAACTTTGAAGTCCTT ATTTCTAACTGCCTACTAAGCTT (SEQ ID NO: 340)
CTP52B	No significant match		AAGCTTAGTAGGCAATAATAGAGAAGT AGAAATTGAATGTGGAACATTAACCATT AAAAATCATACTTTTGAATGTGCTGAGG TCATGAATTGTTTTTACCTTCTTTGTAAT TTGTGTTTTTCAGATTTTCTGTAGTTAGC ATATATTCTATAATCAGAAAAAGATGCT TCAAGTTTTTTGCAGATTTACAGAATTT TGTTT (SEQ ID NO: 341)
CTP53A	No significant match		AAACAAAATTCTGTGAAATCTGCAAAAA ACTTGAAGCATCTTTTCTGATTATAGAA TATCTGCTAACTACAGAAAATCTGAAAA ACACAAATTACAAAGAAGATAAAAAACA ATTCATGACCTCAGCACATTCAAAAGTA TGATTTTTAATGGTTAATGTTCCACATTC AATTTCTACTTCTCTATTATTGCCTACTA AGCTT (SEQ ID NO: 342)
CTP58A	No significant match		AATTGTCACGAACAGGGCTGACTGACAC TGCAGTGTGTCCTTGTTTGTTGATCCCTG ATCTAGGCCTCGGCTTTTCAAACCTGCAG TTGATCAAACCTGGGATATGCTTCGGCTG AATCTGCTCTCTGGTGCTTCTCTTTAATC GTTTTCTCCTTAAATGGGTTACTTTCTTA CTAGGAAAAAAAAAATGTTCCACCTCTG GAATTAACGTTGAGAAGCTT (SEQ ID NO: 343)



Band #	Genbank Gene Name	Accession	Sequence
CTP62A	No significant match		AAGCTTCGACTGTCGCATCAATGAATGT TTTAAGTAATAACTTTGCTGGTTATCAGC TTGATGGTGCATTAATTTTATGGCTCATT TCCTTTATTTTGACCAATTGTCGGATTCTT CATTTTATATTGGACGATCCCCAATCGA ACGGTACCAATTTTTTCAGCTGTGATTGC GGCATGTTTCAACGCGACCGTTTTTGAA ATTTTAAAACATTTATTTGGCTGGGTCAT GAGTAATTTACCAGCTATGAAATCGTT TATGGTGCTTTTGCAGCAGTTCCTATTTT TCTACTTTGGATCTATCTGTCTTGGAATA TCATTTTATTGGGTGTAGAAGTGAGTTA TGCACTCACCGCCTTCCATTCTGGT (SEQ ID NO: 344)
CTP63A	No significant match		AGAATCAAGCCACCAGGTGTTTATTTTT GCACTATAAATAGAGTTCCCTAGTCCCA TTTTGTTACATAATATATGAGATAACAG AGAACCTAAAATTCATTTGGTGAAAATC AAGTGTGTAGTATACCTAAATACCAATG AGCTAGTAAGACTTGTAAGGCACTGAAG CTAAGGCTAACAGCAACAGAGTCCTTTA TGAAAATAATTTTCAGAACCACAACGCAT TCTCTGATGGTGCATTCCCCTGGGACAG TCGAAGCTT (SEQ ID NO: 345)
CTP64B	No significant match		CATCGCAGACATTTATTTTAGTTTTGTTA ATTTCAAATATTCATTAACTCTTGATC AGATTTAAGGCAGAGAAAAGATACACG CCCCTGGTTAACTGAACCGGGGTTTAGA TAGTGTAGTCCACCCTGGGTTCCACCAG GGAGACCTCACCCGAGATGACAGGTCCG GTTGCTGGTGCACAGTCGAAGCTT (SEQ ID NO: 346)
CTP70A	No significant match		AAGCTTAGTAGGCACGCAATAAATAGG AGAATGAATCAGAGTCCTCCAACGCGTC CTCCCTAATGTCCCTTTGAGCTGCCCTCT CTTCCACTCTGCCTCAGCTTGTCCATGTC ACTTCGCTCCAGAGCAGCCGCAAGAGCA TCTTAACACCTTGTGGCCTGAACTCTCTC CCATCCTCCACTGTACAGTGATATGACT GAAACCTCATTTAACCTTTTAGAACTAC CAGGAGGAGGTTCCCAAGGATCCCAGG (SEQ ID NO: 347)

Band #	Genbank Gene Name	Accession	Sequence
CTP72B	No significant match		CCATTTTTGCTCTTAAAGAGCATCTTAAG TGAGAGATCATGACAATCTTTGGCCACT CCAGGTTTTCTCATCTACTACATGATCTG TTCCCAACAATAAGCCATTGAAATTA GGTCTCCAGAAGTTTATCTGGGGTCTG TGATTGAAAAGAAGGAAAATGAGATGA GAGACTGCCTACTAAGCTT (SEQ ID NO: 348)
CTP73B	No significant match		CCCATAAGAAACATCTTTAAAACATTCA GAATACTCAGGATAATCAAGGCTAATAT TCCTATAAATTCTTACGTGTATTATGTA CATTCAGAAAAGTGTAATTACTCAAAT ATTATACTCAAAACCCCTTATAGTCTGCT AACTTGCATGTAGAAACATCTGAAGTAA CATGCTGCCTACTAAGCTT (SEQ ID NO: 349)
CTP74A	No significant match		AAGCTTAGTAGGCATCAATTGGATCCTT TCCTATGTTGAAATGGAAGAATTAATGA GCTTACATTAATTAGTATTGTAATGTGTA AAGGAAGCCCAGCAAAATTTTTGAAAA CTTGATGATCCCAACGTATTACCATTGT ATGTTAAAGCAAAATAAATCACCATTTT TTTA (SEQ ID NO: 350)
CTP75C	No significant match		AAGCTTCTCAACGGCCTCCACCTCCTTTC TGCCCTCACAGCCTCCTGGCTCTGGCCC AAAAAGTGATTCATTTGTAAATTATCAT GGTTTTCTGCATTAAATGGCCATTCTG G (SEQ ID NO: 351)

Band #	Genbank Gene Name	Accession	Sequence
CTP76B	No significant match		AAGCTTTTACCGCCATCTTGGCTCCTGTG GAGGCCTGCTGGGACCAGGACTCCTAAA GCGACGANTTTTTNTGGAAGGCTTTGGT CCAAGGCCATTTTTGCCGGCTATAAACG GGGTCTCCGGAACCAAAGGGAGCACAC AGCTCTTCTTAAAATTGAAGGTGTTTAC GCCCCGAGATGAAACAGAATTCTATTTGG GCAAGAGATGCGCTTATGTATATAAAGC AAAAGAACAACACAGTCACTCCTGGCG GCAAACCAAACAAAACCAGNAGTCATC TGGGGAAAAGTAACTCTGGGCCCCATGGA AACAAGTGGCATGNGTTCCGTGCCAAAT TCCGAAGCAATNTTCTGTCTAATGCCAT TGGACACAGAATCCGAGTGATGCTGTAC CCCTCANAGGATTTAAACTAACGAANA ANCAATAAATAAATGTGATTGCGNTC TTNGG (SEQ ID NO: 352)
CTP77D	No significant match		CAATTGGTTTAGTTTTATTTCAAAATTGT ACAAAATGGCCATAAGCGGCTATAAAA AATTTTCGTTTTTCGGAACACGTGGAAATT CAGAAAGAACAACAAGCAGGTTATCA TTTCACAGTGTAATGGAAAAGCTCTCTC TGAGGCAGGAATCACAACCTCTTCCTTCT TCTTCCCCAGTCTCTCGTGGTCTCCTTCC CGGAGCGCTCGAATGAACTGGTAAACC CCGATTCCGTCCGATCGC (SEQ ID NO: 353)
CTP79B	No significant match		CATATATATTCTTTTTATTCTTGTATATA CCTTCCCAAAAACAGAGACATTCAACAGT AGTTAGAATGGCCATCTCCCAACATTTT AAAAAACTGCACCCCCCAATGGGTGA ACAAAGTAAAGAGTAGTAACCTAGAGTT CAGCTGAGTAAGCCACTGTGGAGCCTTA AGTGGTGAGGTCTTCCAATTCAGAGTG ATGTGTCTTCAACTTGTATCATCATTTTA GCGGTAAAAGCTT (SEQ ID NO: 354)
CTP81A	No significant match		CCAAAGAAGTGTTTATTAACATTTGGGG CCTCAGCGGGGCCAGAGAGGAAGTGGG TGCTAGAGGCTCCTGAGGCTCAGGGCAA GGCCTGCAAGACAGATCCCATTGCTCAG GAGGCAGCCCAGATTGCAAATGGAAGA CAGGCCATGGTAGCGGTAAAAGCTT (SEQ ID NO: 355)

Band #	Genbank Gene Name	Accession	Sequence
CTP92A	No significant match		GCACTAAATTCAAACCAATGACCTCCCA TGTTCTAATTCTGATTGTTTAATCCAAC GGGAGGGTAAACGGGAGACTCTTTGGCC TGTCAGTGACAAAATGGTTTGTAAAAAA GAAAAAATAAATACGATATACAAGTAA GTATAACTAGCACTCAAGC'TT (SEQ ID NO: 356)
CTP99A	No significant match		AGCATATGTAAGATCTCTGGCTTGTA AGACAAGTTTATATAGCACTTAAAAAAC CATTTGTTACATTAAATGTCGAACTCAA ACTTTTAAAGAGTATAGAGA ACTACAAA ATGGAAAAAGGAAGCAGATATACGCTTT ATGAGGAAATTGTGTTAATGATCTCTCC TCTAAAAAAGGACTCTTCCCTATTATCA TAATGACCACACTGCCCCGTCCTTAAAC CACTGGTCGCTGACATTATGCCGAAGCT T (SEQ ID NO: 357)
CTP103JJ	No significant match		AAGCTTCGGCATAGTTACTGTTTGATTTT AAGTTTTTATATAGTTCTTAGTTTTGAAG AAATCCTTCAAGAACAGTTTCTCTAAAG AGCATGTTTTAATTAAATGCTAATTAATT ACCTTTCTTAGTTTTCCAATTTAGTAGGC CACITTCATGTCTATTAAAGTGAAATA AACCTTCTGAACCTAAACATTTTTAAATC GATTAAAAATTGTGTCAAAT (SEQ ID NO: 358)
CTP104I	No significant match		AAGCTTTTTTTTTTCAAACGGATTTGT AAAAACTGTATTTCTTACACTGTGCACA AACCTTTTATACTAAATAAATATCAAAC TACATTCTTCAGAAAGATGTTTCTAGTAT TTTTCTTAGGTCACCTCCATATGTAGTAT GTACAGTGAGACCACTTTTAAAAAGCA ATGACTTAGGCAAACCAACCCTAATGGT TTGTTAGACCATTTCCTGTTTTTAATTA AAAATCATAGGGTTGTGCTTCTGTATAA AGTTTGTACATTTTACAATGTAAAATAC TGACATT (SEQ ID NO: 359)

Band #	Genbank Gene Name	Accession	Sequence
CTP109P	No significant match		ATGCAACCACACGGAATTTATTGAACAT TTTCACAAGTGATTTTCATTAAAGGAAGG CTTTTTCGTGCCTATATTGGTTACCATCA CTTTTGCCCCTATCACAATCTCATGGTGT AGTCCTTGTCATGTAGCAGGAACTCAACA AATGTCTGCTAAATTGACAGATGGAGCC CCAGACGACCTAAAACCTTGCACTTTAGA AGCACTTACTTCATCCTGAGCTATTATG AATAAGGAACTCAAGTGACTGTAAAAAG CATCTACTGATGAGTTGGTAATGTTCTA AAGCAACATATCTCAAAGGAAAGGATA TTGAGTTTGTCTCCACCATAAAAATCCTAT TTTTAAACAAAGGTACTACTTAAAAATG GTCTTCCAAAGGCCTCAGCAGAGGTTCT AAAGAGATGTGACAATATGCCGAAGCTT (SEQ ID NO: 360)
CTP110A	No significant match		AACATATAAAAAACATTTATTCACIAGGA ATAATTGTGGCAGACACAATCCAGTGAA AGCAGCTCAATCCTGCTCAGTTAGGCTA GTTGAAGAACCATACTTTAAAAAAAGAA AGGAAGACAGGCAAACAAGTGTTTTAC AGGAGCAACAGACTTCAAGGTCACCCCC ACAAGACACCCTGCACAGCAGGGACGG GGACAGGGAGGATGACCTCTTAGGGCCT GTGCCTTCGCAGAGGTGCTCGGCGGATG GGTGTGGTCTTCTTGGGTGTCTCCTCTTC TGTCATCTATGCCGAAGCTT (SEQ ID NO: 361)
CTP111A	No significant match		AAGCTTCGGCATAAACGATCCATTCTCC TCGGCCTCCCAAAGTGCTAAGGTTCCAG GCGTGAACCACCATGCCCAGCCTGTTCT TTTTTTTATCTCTAGGTGGTGCTCTCCAG CTGTAGTAGAAATAGCATTTGTATTGGA TCTATTTTTTTAAATAGGGACTAAATAC AGACCATTTTGTTAGAGTGAAATGCCAA ACAAGAACGAGATTTTTCTCTTGGCT (SEQ ID NO: 362)

Band #	Genbank Gene Name	Accession	Sequence
CTP116A	No significant match		AAAAGAGCATACTTATCAGTTGAATGGG GATAGAGGTTTTAGATATTTTCCAAAAT ATTTATAAAACACTTCATTGTTGAGAAA TCACTTACAGAATGGTGGCTATCAAACA AATAATTATAAATTTTTAAAGCACAAAGT CACATGTTTTGTAACTCCTGTGTGAATTT ATTTTAGCTGTGACATTTAATTGAAAAC ATCAGATATGTTTTGGAAAAGTCTTAAT TTGAGAACAACCTGAAGGAAGTTAATCCA GAATCTATATGTAGTTAGCTATTAATGA TGATGCTTTATTGACAGTATATTGCTAAT ATATTTCTTCATGAAATCTGAAGTTAAA TAGTTTCGTTGTGGAATAGTGTCACTGT AACATTTCCCTTACGAAGTTCAATAAAC CAGCTTTGCCATAAAAAAAAAAAGCTT (SEQ ID NO: 363)
CTP124B	No significant match		ATGGCAAAGCTGGTTTATTGAACTTCGT AAGGGAAATGTTACAGTGACACTATTCC ACAACGAAATTATTTAACTTCAGATTTT ATGAAGAAATATATTAGCAATATACTGT CAATAAAGCATCATCATTAAATAGCTAAC TACATATAGATTCTGGATTAACTTCCTTC AGTIGTTCTCAAATTAAGACTTTTCCAA AACATATCTGATGTTTTCAATTAAATGTC ACAGCTAAAATAAATTCACACAGGAGTT ACAAAACATGTGACTTGTGCTTTAAAAA TTTATAATTATTTGTTTGATAGCCACCAT TCTGTAAGTGATTCTCAACAATGAAGT GTTTTATAAATATTTTGAAAAATATCTA AAACCTCTATCCCCATTCAACTGATAAG TATGCTCTTTTAAAAAAAAAAGCTT (SEQ ID NO: 364)

Band #	Genbank Gene Name	Accession	Sequence
CTP126A	No significant match		AAAGAAAGTAATTATGGAAGTAGATTTT TAACATTGTAAAATACTAAATGATCCTT CAGTTGTAAGTTGATATATATTTGTAAC CTTTGTGAAATTGTATCCTTATGAAAAT ACCACTTTTGTGGAAGAGAGAATCCAAC TATGTAATATTTAATTAACAATCCAT GTTTACCCTATCCCTGCTCAATTAACA GTGTATATAGGTCTAATAATAGCTCTGG AGCAACTTTTATCATGAGTCAAATATAT TAAACACATTGATGTCTTCTTGGTATATC TGAAAACAAGAGGTAGAAGTCCTGTTGA GAGTCTTTAAAAATAAACTATTTTACAA ATGTAAAAAAGCTT (SEQ ID NO: 365)
CTP133B	No significant match		CCAAAAAGAGCCATGCCAGAGGGAAA GTTGGAAACGAAAGCCAAGTTTTCATTT AAAAGGAAACANTAAAGAGGTTAGCCA GAGAACTTGAACCAAAGAAAAGACAG CACGCTGTTCAAGATGGTCAATAAGAGC CTAAACGGTACCCTCGGAATGAAGCTT (SEQ ID NO: 366)
CTP134A	No significant match		CCAAAAAGAGCCATGCCAGAGGGAAA GTTGGAAACGAAAGCCAAGTTTTCATTT AAAAGGAAACATTAAGAGGTTAGCCA GAGAACTTGAACCAAAGAAAAGACAG CACGCTGTTCAAGATGGTCAATAAGAGC CTAAACGGTACCCTCGGAATGAAGCTT (SEQ ID NO: 367)
CTP143B	No significant match		AAGATTTCAAAGAGTGAGCAAGTGCATT AGCAGGGCAGAGAGAGAGGCAGCAGCA GACTCCCTGCTGAGCTGGGAGCCAACTT GGGACTCGATGCCGGGACCCAGGATCA TTACCCGAAGCTT (SEQ ID NO: 368)
CTP144B	No significant match		GGGTAAATCCGTCCAGTTTACTGTAAAT ATGCCTTTGACAACTGGTAACTCATGT CCCATCCAGTCCCGAGTACTGGACCAG GGAACTCCAGCCACAGTTGAGGGAAG GCCACCTGTTGGCTCTGGGGCAGCAGGT CATCCAGTGGGCTTCAGGAGTCACCAGG CCTCTGACCAGTTCCTCCCAACCAAGCA GTTTCAGAGTTGTCCGCCAAGTCTATTT ACACCTCTCGTGTATGCCGAAGCTT (SEQ ID NO: 369)

Band #	Genbank Gene Name	Accession	Sequence
CTP145B	No significant match		GGACTGATAATAATAGGATTTTATTTCT AAAATTTATCTTAGAGCTTTCAAAGAGT ATAACACACAGATCTTTACCACCACACC CCCCTTGCCTATACAGGAAACAACCAAG TTGTGAGAACATTTATCATGCACAGACA CATCAGGGCTTGCAGGTGCTACACAGGA ATCACAAATGCTGTTCCACATCATGTCTT CTGTTATGCCGAAGCTT (SEQ ID NO: 370)
CTP149B	No significant match		AGGAAGAATAAAAAACATATAAAAAACAT TTATTCAGTAGGAATAATTGTGGCAGAC ACAATCCAGTGAAAGCAGCTCAATCCTG CTCAGTTAGGCTAGTTGAAGAACCATAC TTTAAAAAAGAAAAGGAAGACAGGCAA ACAAGTGTTTTACAGGAGCAACAGACTT CAAGGTCACCCCCACAAGACACCCTGCA CAGCAGGGACGGGGACAGGGAGGATGA CCTCTTAGGGCCTGTGCCTTCGCAGAGG TGCTCGGCGGATGGGTGTGGTCTTCTTG GGTGTCTCCTCTTCTGTCTATGCCGA AGCTT (SEQ ID NO: 371)
CTP150A	No significant match		AGCATATGTAAGATCTCTGGCTTGTAGA AGACAAGTTTACATAGCACTTAAAAAAC CATTTGTTACATTAAATGTCGAACTCAA ACTTTTAAAGAGTATAGAGAACTACAAA ATGGAAAAAGGAAGCAGATATACGCTTT ATGAGGAAATTGTGTTAATGATCTCTCC TCTAAAAAAGGACTCTTCCCTATTATCA TAATGACCACACTGCCCCGTCCTTAAAC CACTGGTCGCTGACATTATGCCGAAGCT T (SEQ ID NO: 372)
CTP154A	No significant match		AGCATATGTAAGATCTCTGGCTTGTAGA AGACAAGTTTATATAGCACTTAAAAAAC CATTTGTTACATTAAATGTCGAACTCAA ACTTTTAAAGAGTATAGAGAACTACAAA ATGGAAAAAGGAAGCAGATATACGCTTT ATGAGGAAATTGTGTTAATGATCTCTCC TCTAAAAAAGGACTCTTCCCTATTATCA TAATGACCACACTGCCCCGTCCTTAAAC CACTGGTCGCTGACATTATGCCGAAGCT T (SEQ ID NO: 373)



Band #	Genbank Gene Name	Accession	Sequence
CTP164A	No significant match		AAGCTTCGGCATAACGGTGTGAGGTTACA GTCCAGTTTTGTGTGCTTTACTACACGGT TTGGTTACAGGACTTCTGTGCATTGTAA AACATAAACAGCATGGAAAAGGTAAAA TACCTGTGTGCAGATTGTAAGATCTGGT CCGGACTTGCTGTGTATATTGTAACGTT AAGTGAAAAAGAACCCCCCTTTGTATCA TAGTCATGCGGTCTTATGTATGATAAAC AGTTGAATAATTTGTCCTCAGACTCTTTA CTATGCTTTTTTAAAAATTAAGAAAAATG TAAATATAGTAAAAATCTTCCTATGCAA TTAACCTGG (SEQ ID NO: 374)
CTP179K	No significant match		AAGCTTACCAGGTAGAGGGACTGTTGGA GGTATGGACGCACACAGGAGGGCCAGG CCAAGGCACGAGTTTTTCAGTGAAGGGG GTAAAGCATCACAATTTAAAATGTTTGC AATTAAACTGGTTTGTAAATATC (SEQ ID NO: 375)
CTP185C	No significant match		CAGCGAAGAGGCATTAAAGATTCATGCC ATAAGTTTATTTACAAACATGTTGTGTAT GTTGAATTCAAGAGATTGATCCATTTTT AGAGACTGCACCTCTTAAAATGTTCCCT TTCACATCTGTTTAGTGGATCAAAAGCT T (SEQ ID NO: 376)
CTP197A	No significant match		ATGGTGTGTGTGTGGGTTCAAATAGTTT ATTCACCTCTGTAGTGGAAAAACAAGGA GAAATAAAATCTGCTTACAATGGCCAAA ATTTATGGAGAAGCCCTAAAGTTGCTTT CCCCAAATCACAAATCTGATTCAAGAGA AGGAAAAAAATGATGAAAAACATCTCA TCACACAAAACCTCAGTGTGGTGTCTCTG ATAGTCATCAGCCAGCAGAAGCTT (SEQ ID NO: 377)
CTP202C	No significant match		AGAAAAAAATTGATAATTAGGTGCAG ATAGAAAATATGAATTAGAAGAGGTTA ATTCAAGTGATCAGCCTGAAAGTTCAGC TTCATTAGCTTTGTGGTAAATCCACCACT TCAGATAGTAACTAAAGTAAATTTTAAA TTTCATAAGAATAAAGTAATCCCTGAAA AGAATTCACTTTTTCCCAGAAGAAGCT TATAATTAAAAAAAAGCTT (SEQ ID NO: 378)

Band #	Genbank Gene Name	Accession	Sequence
CTP208B	No significant match		CTAGAGGAAGTGCTTTTTATTTTAGATC AACCAAACATATTTAATATAAAAACCTT TTAATATACAAACTGTAATCACAATTGC ATCCACGTAGCAGCGAGGGAATGGGGT GTTGCAGGAAGCTT (SEQ ID NO: 379)
CTP215B	No significant match		AAGCTTAGAGGCAGTAAACAGGAGCGT CCCCAAGAAAAAGAGGAAATTCTCTTCT AAGGAGGAGCCACTTAGCAGTGGACCT GAAGAGGCTGCTGGCAACAAGAGCGGC AGCTCCAAGAAAAAGAAAAAGCTCCAG AAGCTATCCCAGGAAGATTAGAATGGAC ATTTTACCAGGTGGGGCAAACCCACATG ATTCCAAACCCACCCCTATATCCCAATA AAAACAAATTACAGG (SEQ ID NO: 380)
CTP222D	No significant match		AAGCTTACCAGGTGAAGAGTGGGGTGT CATGACCTTGGCTATGACGCCCAGCATT TCGAGGTGGCTCCCTCTATTCTTTACTTT GGGCATCATAGAAAACGTGTCTCTGGGG GATTAATCTTAGAGAAAAATAAAGCCTT TCTGCTG (SEQ ID NO: 381)
CTP306B	No significant match		AAGCTTCTGCTGGTATGGAAAGCCTTCA AGGAAGAGGGTAATGAGGGGAAGAAG TGCTGTGCCAAAAGTGACAGCATTCAAGT AGGAATAAAGAAAGGAGCTCAGTGGTA GCAGGATGTTGAGCTTCCAAGAAAATCT GGTGGTGGTGAGAAAGTGGCTGCTGTGC ACTGCAAGGAAACAGAGCGATTAAAGA AAGAGATGTGACAGGGTAGGTGGAAGA GATAGCCAGAAGTTAGAAATGGGTTACA CTGAAGAAGTAAATTATTTGATTAAACA ATAAGTAAATATACTGGGGATAACAAA AGCCTGATTTCTCCACTGTCTCAGAAGG GATTTGCAAGTATGG (SEQ ID NO: 382)

Band #	Genbank Gene Name	Accession	Sequence
CTP308KK	No significant match		AAGCTTTCTCTGGATGAACAGTTAAATG GAACCTGGAAACCTCTTCCTGGGATTAT TCCTTAAGCAAGGCAGTGTCAAAGGCAA CCCTCCCAGCAAGACTTCAGAAAAACAGC TGGCAGAACTACAGGATCTGGTGTCTGG TGTGTAAAATACTCTCCTCCCTGTTCAAA TGATTCAAGAACATGTGCAAAGTGTGCTA GCTTTCATCACATATACATAACAGCATT ATGTATCAAGTTACCCTGTTCAAACAAG GAGCAGGCTTCCTCTTTTTGACTTAAATG ACATGAAGTGAGAAAAAAAATGAGAAT AACCNTCNNGGGAATTATAGAGGGTAT AATTCTATCCNACTATTTCAATAAAAG CCATCACGGG (SEQ ID NO: 383)
CTP309A	No significant match		AAGCTTTCTCTGGCTTTCCGAAGGTAAA ACTGTTGCCGAAGTTGCTGCGTTACAAG AGCGTATCCCAGAAACCATAAGGCTACA ACGCCGAAATTGGGAGCTACATCAGTTT GAATCGATTCAAGAAGGTCATCGCTCAG GCCGTCCCAATACACTGACCTCAAACATA TCAGGCTCAAATCTTAGAGTGGGTCAAC ACAAGCCCACTCAATGCAGAACAAATCC GAGTCAAACCTGCATGAAAAACACGGTGT GTCCGTGTCTGTTGAAACTCTTCGCAAG TTTTTGCGAGATTCAGGCATGGTCTTCA AACGCACCCGCCACAGCTTG (SEQ ID NO: 384)

TABLE 9

Band #	Genbank Gene Name	Expression Pattern
CTP1D	No significant match	upregulated with Etoposide, caffeine and aspirin
CTP1G	No significant match	upregulated with Etoposide, caffeine and aspirin
CTP3B	Homo Sapien N-myc dow BC003175	doublet-larger band is upregulated etoposide, caffeine and aspirin, the smaller band is upregul
CTP4B	No significant match	upregulated in Caffeine treated
CTP7B	No significant match	upregulated in Etoposide treated
CTP8A	No significant match	repressed in Etoposide treated
CTP8C	Human DNA sequence fn HSJ734P14	repressed in Etoposide treated
CTP10Y	Canis familiaris mitochon CFU96639	upregulated in Etoposide treated
CTP11A	cyclin-dependent kinase i BC001935	upregulated in Etoposide treated
CTP16B	Homo sapiens cDNA FLJAK000548	repressed in Etoposide treated
CTP17G	No significant match	repressed in Etoposide treated
CTP18B	No significant match	upregulated in Etoposide treated
CTP19F	Homo sapiens chromosor AC008651	upregulated in Etoposide treated
CTP20B	Bos taurus ribosomal prol AF063243	upregulated in Caffeine treated
CTP21A	Rattus norvegicus ribosor NM_022506	upregulated in Caffeine treated
CTP22C	Canis familiaris mRNA for AJ388512	upregulated in Caffeine treated
CTP25D	No significant match	repressed with caffeine and aspirin
CTP26A	Canis familiaris chymase U89607	repressed with caffeine and aspirin
CTP26B	H.sapiens cycA gene for X68303	repressed with caffeine and aspirin
CTP27C	Homo sapiens CTCL turn AF177227	repressed with etoposide and aspirin
CTP28D	Homo sapiens upstream INM_014517	repressed in carboplatin
CTP30E	Homo sapiens BAC clone AC003083	repressed in carboplatin

<b>Band #</b>	<b>Genbank Gene Name</b>	<b>Expression Pattern</b>
CTP31A	No significant match	upregulated in cisplatin
CTP32D	cDNA FLJ14795 fls, clone AK027701	repressed with caffeine and aspirin
CTP34A	Homo sapiens ribosomal NM_001032	repressed in Etoposide
CTP36A	No significant match	upregulated in Caffeine
CTP37A	Homo sapiens nuclear fax AF167569	repressed with etoposide
CTP41B	Homo sapiens mRNA for AB037813	repressed in cisplatin
CTP47G	No significant match	induced with cisplatin
CTP50A	No significant match	induced with cisplatin
CTP51A	Homo sapiens intestinal I AF219991	induced with cisplatin
CTP52B	No significant match	induced with cisplatin
CTP53A	No significant match	induced with cisplatin
CTP58A	No significant match	repressed with carboplatin
CTP59A	Homo sapiens cyclin D2 (XM_012143	induced with cisplatin
CTP60B	Homo sapiens RNA bindii XM_016120	repressed with carbo and trans platin
CTP61D	prion protein [mink, Geno S46825	repressed with carbo and trans platin
CTP62A	No significant match	induced with cisplatin
CTP63A	No significant match	induced with cisplatin
CTP64B	No significant match	induced with cisplatin
CTP65A	Pig mRNA for endoplasm X16951	repressed with carbo and trans platin
CTP67A	clone RP5-1071L10 on cl AL133228	repressed with cisplatin
CTP68F	Oryctolagus cuniculus Ne U09823	repressed with cisplatin
CTP70A	No significant match	repressed with cisplatin
CTP71A	Canis familiaris caveolin- U47060	induced with carboplatin
CTP72B	No significant match	repressed with cisplatin
CTP73A	Homo sapiens chromosor AC026201	repressed with cisplatin
CTP73B	No significant match	repressed with cisplatin
CTP74A	No significant match	repressed with carbo, trans and cisplatin

<b>Band #</b>	<b>Genbank Gene Name</b>	<b>Expression Pattern</b>
CTP75C	No significant match	repressed with carbo, trans and cisplatin
CTP76B	No significant match	induced with cisplatin
CTP77D	No significant match	repressed with cisplatin
CTP78B	Homo sapiens SON DNA XM_009738	induced with cisplatin
CTP79B	No significant match	induced with cisplatin
CTP80A	Homo sapiens WDR4 ger AB039887	repressed with cisplatin
CTP81A	No significant match	induced with cisplatin
CTP85D	Homo sapiens Rho-assoc XM_008814	repressed with carbo, trans and cisplatin
CTP86F	Homo sapiens chromodoi NM_001272	induced with cisplatin
CTP87B	Homo sapiens tetratricopi XM_009760	induced with cisplatin
CTP88A	Rattus norvegicus ribosor NM_022506	repressed with cisplatin
CTP89B	Homo sapiens genomic [AP003473	induced with cisplatin
CTP90A	Homo sapiens clone 248(AF070622	induced with cisplatin
CTP92A	No significant match	induced with cisplatin
CTP92C	Human DNA sequence fn AL133286	induced with cisplatin
CTP93F	clone RP1-211D12 on ch Z93016	induced with cisplatin
CTP94B	Homo sapiens clathrin, h NM_008305	induced with cisplatin
CTP99A	No significant match	repressed with cisplatin
CTP100A	COX15 (yeast) homolog, BC002382	induced with cisplatin
CTP103JJ	No significant match	induced with cisplatin
CTP104I	No significant match	repressed with cisplatin
CTP109P	No significant match	induced with cisplatin
CTP110A	No significant match	induced with cisplatin
CTP111A	No significant match	induced with cisplatin
CTP112B	Bos taurus peroxiredoxin AF305561	induced with cisplatin
CTP113A	Box taurus ribosomal proi AF063243	induced with cisplatin

<b>Band #</b>	<b>Genbank Gene Name</b>	<b>Expression Pattern</b>
CTP115B	Homo sapiens chromosoi AC005899	induced with cisplatin
CTP116A	No significant match	induced with cisplatin
CTP117B	Homo sapiens similar to XM_017740	induced with cisplatin
CTP119J	H.sapiens SPR-2 mRNA 1X68560 S52	induced with cisplatin
CTP121D	Human ribosomal protein U43701	induced with cisplatin
CTP122I	Human mRNA for KIAA0(D26067	repressed with carbo and transplatin
CTP124B	No significant match	induced with cisplatin
CTP126A	No significant match	induced with cisplatin
CTP129A	Homo sapiens, Similar to BC007583	induced with transplatin
CTP131B	Homo sapiens similar to s XM_006087	induced with cisplatin
CTP133B	No significant match	induced with cisplatin
CTP134A	No significant match	induced with cisplatin
CTP135A	Homo sapiens cDNA FLJAK021570	induced with cisplatin
CTP143B	No significant match	induced with etoposide and caffeine
CTP144B	No significant match	repressed with caffeine and aspirin
CTP145B	No significant match	repressed with aspirin
CTP148B	Homo sapiens serine-thre AF108830	induced with aspirin
CTP149B	No significant match	induced with caffeine
CTP150A	No significant match	repressed with etoposide
CTP150C	Canis familiaris mitochon CFU96639	repressed with etoposide
CTP154A	No significant match	induced with caffeine
CTP156J	Human DNA sequence fn AL136120	induced with etoposide and caffeine
CTP161B	Canis familiaris TCTA ger AJ012166	induced with aspirin
CTP164A	No significant match	induced with aspirin
CTP178B	Homo sapiens mRNA for AB040957	induced with carboplatin
CTP179K	No significant match	induced with carboplatin
CTP185C	No significant match	induced with carbo and trans platin

Band #	Genbank Gene Name	Expression Pattern
CTP197A	No significant match	induced with carboplatin
CTP201B	Homo sapiens, exostoses BC001174	induced with carboplatin
CTP202C	No significant match	induced with carboplatin
CTP205D	Homo sapiens similar to XM 011187	induced with carboplatin
CTP206A	Homo sapiens fatty acid c NM 013402	repressed with carbo and transplatin
CTP208B	No significant match	induced with transplatin
CTP215B	No significant match	induced with aspirin
CTP216A	Canis familiaris heat-shoc U19368	repressed with etoposide
CTP222D	No significant match	induced with aspirin
CTP300B	Homo sapiens utrophin (I- NM 007124	repressed with cisplatin
CTP304B	Homo sapiens unknow XM 002211	induced with cisplatin
CTP306B	No significant match	induced with cisplatin
CTP308KK	No significant match	induced with cisplatin
CTP309A	No significant match	repressed with cisplatin



Table 10

1-chloro-2-nitrobenzene	chlorambucil	flufenamic acid	phenytoin
1-naphthylisothiocyanate	chloroform	ganciclovir	phorbol 12-myristate
2,4-dinitrophenol	chloroquine	gemfibrozil	13-acetate diester
2-acetylaminofluorene	chlorpromazine	gentamicin	pioglitazone
2-azido-2-deoxycytidine	cimetidine	guanine	polyethylene glycol
2-azido-2-deoxyuridine	cisplatin	haloperidol	prednisolone
4-acetamidofluorene	clenbuterol	hexobarbital	prednisone
5-azacytidine	clofibrate	hydroxyurea	pregnenolone-16-
5-chlorouracil	clozapine	indomethacin	alpha-carbonitrile
5-fluorouracil	colchicine	iodoacetamide	proflavin
6-mercaptapurine	cycloheximide	isoniazid	progesterone
6-thioguanine	cyclophosphamide	isonicotinic acid	puromycin
acetamidofluorene	cyclosporin A	ketoconazole	quinidine
acetaminophen	cyclosporin G	lipopolysaccharide	reserpine
acetylsalicylic acid	Cyclosporin H	Lovastatin	rezulin
acridine	cytosine arabinoside	mechlorethamine	rifampicin
actinomycin	dacarbazine	melatonin	rifampin
aflatoxin B1	DEHP	melphalan	rosiglitazone
allyl alcohol	dexamethasone	merbarone	Simvastatin
aminopterin	dieldrin	methapyrilene	sodium azide
aminotriazole	diethylhexylphthalate	methocel	streptozotocin
amphotericin B	diethylstilbestrol	methotrexate	sulfamethoxazole
ampicillin	diflunisal	methyl	sulfisoxazole
amsacrine	diflunisol	methanesulfonate	tacrine
ANIT	digitoxin	mitomycin C	tamoxifen
antimycin A	dimethylhydrazine	mitoxantrone	TCDD
antipyrine	dimethylnitrosamine	naloxone	tetracyclin
Aspirin	DL-ethionine	naproxen	thalidomide
Atorvastatin	D-Mannitol	nicotine	theophylline
azathioprine	DMBA	nifedipine	thioguanine
Benz[a]pyrene	DMSO	nitrofurantoin	transplatin
benzene	doxorubicin	N-nitroso-N-ethylurea	triamcinolone
benzo(a)pyrene	endotoxin	N-nitroso-N-	triethylenemelamine
bleomycin	erythromycin	methylurea	triethylenethiophosph
bromobenzene	erythromycin estolate	oligomycin	horamide (S-TEPA)
busulfan	estradiol	o-toluidine	troglitazone
cadmium chloride	ethanol	oxymetholone	trovan
caffeine	ethinyl estradiol	paclitaxel	Valproic Acid
camptothecin	ethionine	paracetamol	verapamil
carbamazepine	ethyl methanesulfonate	PEG 300	Wy-14643
carbon tetrachloride	etomoxir	Penicillin	
carboplatin	etoposide	phenobarbital	
carmustine	fenofibrate	phenylhydrazine	

Table 11

Genes	Acetaminophen, 10198, Canine Liver, 300mg/kg, 10 days	Acetaminophen, 10188, Canine kidney, 300mg/kg, 2 days	Acetaminophen, 10318, Canine liver, 300mg/kg, 10 day	Acetaminophen, 10185, Canine kidney, 300mg/kg, 2 days	Amphotericin B, 10190, Canine kidney, 0.8mg/kg, 2 days	Amphotericin B, 10197, Canine Liver, 0.8mg/kg, 2 days	Amphotericin B, 10317, Canine liver, 0.8mg/kg, 2 day	Amphotericin-B, 10187, Canine kidney, 0.8mg/kg, 2 days	Erythromycin estolate, 10080, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10083, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10084, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10086, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10088, canine kidney, 100mg/kg, 10 days	Erythromycin Estolate, 10195, Canine Liver, 100mg/kg, 10 days	Erythromycin Estolate, 10315, Canine liver, 100mg/kg, 10 day	Estradiol, 10081, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10082, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10085, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10087, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10089, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10196, Canine Liver, 0.3mg/kg, 10 days	Estradiol, 10316, Canine liver, 0.3mg/kg, 10 day	Methotrexate, 10186, Canine kidney, 2mg/kg, 2 days	Methotrexate, 10189, Canine kidney, 2mg/kg, 2 days	Methotrexate, 10199, Canine Liver, 2mg/kg, 3 days	Methotrexate, 10319, Canine liver, 2mg/kg, 3 day	
Alkaline phosphatase	1.4	1.2	-1.4	1.4	1.5	1.4	-1.1	1.2	-1.0	1.6	1.6	1.6	1.6	1.3	1.5	-1.0	1.4	1.6	1.6	1.6	1.0	1.0	1.1	1.0	1.1	2.1	1.1
Angiopoietin-related protein 3 (ANGPTL3)	-1.1	-1.0	-1.4	1.4	-1.1	1.0	-1.8	1.2	1.0	-1.1	-1.1	-1.1	-1.1	-1.0	1.5	-1.2	1.1	-1.1	-1.1	-1.1	-1.1	-1.3	-1.5	1.3	-1.0	1.1	-1.5
Beta-glucuronidase	1.1	1.1	-1.4	1.1	1.3	1.6	-1.1	1.1	1.1	1.4	1.4	1.4	1.4	1.3	1.5	-1.0	1.3	1.4	1.4	1.4	1.1	1.2	1.2	1.1	1.2	2.6	-1.1
BR-cadherin	1.4	-2.0	1.1	-1.0	-1.2	-1.0	1.2	-1.0	1.0	-1.1	-1.1	-1.1	-1.1	1.2	1.2	-1.0	-1.5	-1.1	-1.1	-1.1	1.2	1.3	-1.0	-1.0	1.2	1.3	1.1
BRCA1	1.2	-1.5	-1.0	-1.2	1.1	1.4	-1.1	-1.1	1.2	1.4	1.4	1.4	1.4	-1.3	1.5	-1.1	1.1	1.4	1.4	1.4	1.8	1.2	1.2	1.2	1.1	1.9	1.0
c-erb B-2	1.3	2.0	-1.1	1.0	1.3	1.3	1.0	1.2	1.4	1.4	1.4	1.4	1.4	1.6	1.3	1.1	1.3	1.4	1.4	1.4	1.1	1.1	1.1	1.2	1.3	1.6	1.0
Canis familiaris mitochondrion, complete genome	1.2	-5.7	1.3	-1.8	-1.4	-1.2	-1.2	-1.5	-1.4	-1.1	-1.1	-1.1	-1.1	1.2	1.1	1.0	-1.8	-1.1	-1.1	-1.1	-1.2	-1.1	-1.6	-1.7	1.5	1.3	1.5
Catalase	1.2	1.2	-1.2	1.5	1.1	1.2	-1.3	1.6	-1.1	1.2	1.2	1.2	1.2	-1.4	1.4	-1.1	-1.0	1.2	1.2	1.2	-1.6	-1.1	-1.6	1.4	-1.0	1.6	-1.1
Caveolin-1	-1.3	1.4	-1.1	1.2	1.0	-1.2	-1.1	1.2	1.3	1.0	1.0	1.0	1.0	-1.0	-1.3	-1.1	1.4	1.0	1.0	1.0	1.2	1.2	1.2	1.2	-1.0	-1.1	-1.0
Caveolin-2	1.0	-2.0	-1.0	1.9	1.0	1.1	-1.2	2.1	-1.4	1.6	1.6	1.6	1.6	-1.5	1.2	-1.0	1.7	1.6	1.6	1.6	-1.3	-1.2	1.2	1.9	1.4	1.2	-1.1
CD40 ligand	1.1	1.1	-1.0	2.4	1.4	1.2	1.1	2.2	-1.1	-1.0	-1.0	-1.0	-1.0	-1.0	-1.1	-1.1	1.1	-1.0	-1.0	-1.0	-1.3	1.0	-1.1	2.2	-1.2	1.4	1.2
Cubilin	1.1	1.0	1.0	-1.3	-1.2	1.1	1.1	-1.1	-1.3	1.1	1.1	1.1	1.1	-2.6	1.1	1.0	-1.0	1.1	1.1	1.1	-1.9	1.2	1.1	-1.3	1.2	1.4	1.2
Cytochrome c oxidase subunit II	1.2	-4.0	1.5	-1.5	-1.5	-1.3	1.1	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.0	-1.1	1.6	-1.5	-1.3	-1.3	-1.2	-1.2	-1.2	-1.0	-1.5	-1.4	1.1	1.5

Genes	Acetaminilophen, 10198, Canine Liver, 300mg/kg, 10 days	Acetaminophen, 10188, Canine kidney, 300mg/kg, 2 days	Acetaminophen, 10318, Canine liver, 300mg/kg, 10 day	Acetaminophen, 10185, Canine kidney, 300mg/kg, 2 days	Amphotericin B, 10190, Canine kidney, 0.8mg/kg, 2 days	Amphotericin B, 10197, Canine liver, 0.8mg/kg, 2 days	Amphotericin-B, 10187, Canine kidney, 0.8mg/kg, 2 days	Erythromycin estolate, 10080, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10083, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10084, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10086, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10088, canine kidney, 100mg/kg, 10 days	Erythromycin Estolate, 10195, Canine Liver, 100mg/kg, 10 days	Erythromycin Estolate, 10315, Canine liver, 100mg/kg, 10 day	Estradiol, 10081, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10082, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10085, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10087, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10088, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10089, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10196, Canine Liver, 0.3mg/kg, 10 days	Estradiol, 10316, Canine liver, 0.3mg/kg, 10 day	Methotrexate, 10186, Canine kidney, 2mg/kg, 2 days	Methotrexate, 10189, Canine kidney, 2mg/kg, 2 days	Methotrexate, 10199, Canine Liver, 2mg/kg, 3 days	Methotrexate, 10319, Canine liver, 2mg/kg, 3 day		
Cytochrome c oxidase subunit VIIaL	1.1	-2.0	-1.0	-1.4	-1.1	1.0	-1.1	-1.3	-1.2	1.0	1.0	1.2	1.0	-1.0	-1.4	1.0	1.0	1.0	1.0	1.1	-1.0	-1.2	-1.4	-1.1	1.1	1.1	1.0	
Cytochrome P450 2B	-1.4	1.3	-2.3	1.1	1.1	-3.0	-2.5	1.1	-1.0	-1.0	-1.0	-1.3	1.9	1.5	1.2	-1.0	-1.0	-1.0	-1.1	-1.1	-1.1	-1.0	-1.2	-1.4	1.1	1.3	-1.4	-1.7
Cytochrome P450 2C21	1.2	-1.1	-1.2	-1.3	1.2	1.2	1.0	-1.2	1.1	-1.1	-1.0	-1.0	1.1	1.3	-1.1	-1.9	-1.1	-1.0	-1.1	-1.3	1.3	-1.2	-1.4	1.2	1.2	-1.1		
Cytochrome P450 2C41	-1.9	1.4	1.6	1.4	-1.2	-1.6	1.6	1.2	1.2	-1.1	-1.1	-1.1	-1.3	4.5	18.8	1.7	-1.1	-1.1	-1.1	1.5	-1.4	1.9	1.4	1.1	-1.6	-1.2		
Cytochrome P450 2D	-1.4	1.0	-2.0	1.4	1.6	-1.4	-1.2	1.6	1.5	1.1	1.1	1.1	1.5	-1.2	1.1	1.2	1.1	1.1	1.0	1.0	1.0	-1.3	1.6	1.1	-1.4	-1.9		
Cytochrome P450 3A	1.7	1.6	1.1	1.5	-1.2	1.3	-1.2	1.2	1.3	-1.1	-1.1	-1.1	1.3	7.0	4.1	1.0	-1.1	-1.1	-1.1	1.2	1.6	-1.3	1.5	1.0	1.7	-1.0		
Decorin	-1.1	-1.0	-1.6	-1.1	-1.0	-1.1	-1.4	-1.1	1.1	1.3	1.3	1.3	1.2	-1.0	-1.4	1.1	1.3	1.3	1.3	-1.1	-1.2	-1.5	-1.1	-1.1	-1.2	-1.5		
FGFR2	1.0	1.0	-1.0	-1.2	-1.1	-1.0	1.1	-1.3	1.1	-1.0	-1.0	1.4	1.2	-1.0	1.1	-1.0	-1.0	-1.0	1.1	1.2	1.0	-1.4	1.1	1.7	1.4			
Gadd45	1.6	1.7	1.6	-1.3	-1.2	2.0	1.9	-1.2	1.0	-1.1	-1.1	1.4	1.2	1.4	-1.2	-1.1	-1.1	-1.1	1.1	1.1	-1.2	-1.0	1.7	1.5				
Glucose transporter	1.3	1.6	-1.1	1.4	1.2	1.3	-1.1	1.3	1.1	1.3	1.3	1.1	1.3	1.0	1.2	1.3	1.3	1.3	1.3	1.2	1.1	-1.1	1.5	1.1	1.5	-1.1		
Glucose-6-phosphatase	-1.1	-1.5	-1.4	-1.2	1.3	-1.3	-1.0	-1.1	-1.2	1.0	1.0	-1.6	1.4	1.1	-1.2	1.0	1.0	1.0	-1.6	1.1	-1.4	-1.2	1.5	1.9	1.3			
Glucose-regulated protein 94 #1	1.1	-1.0	1.0	1.1	-1.2	1.5	1.2	1.2	1.4	1.0	1.0	-1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.2	1.1	1.1	1.1	-1.2	1.5	1.2			
Glucose-regulated protein 94 #2	1.7	-1.8	1.1	-1.0	1.1	1.4	-1.1	1.1	-1.1	1.2	1.2	1.3	1.5	-1.1	-1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.0	-1.2	1.8	1.2		

Genes	Acetaminophen, 10198, Canine Liver, 300mg/kg, 10 days	Acetaminophen, 10188, Canine kidney, 300mg/kg, 2 days	Acetaminophen, 10318, Canine liver, 300mg/kg, 10 day	Acetaminophen, 10185, Canine kidney, 300mg/kg, 2 days	Amphotericin B, 10190, Canine kidney, 0.8mg/kg, 2 days	Amphotericin B, 10197, Canine Liver, 0.8mg/kg, 2 days	Amphotericin B, 10317, Canine liver, 0.8mg/kg, 2 day	Amphotericin-B, 10187, Canine kidney, 0.8mg/kg, 2 days	Erythromycin estolate, 10080, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10083, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10084, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10086, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10088, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10088, canine kidney, 100mg/kg, 10 days	Erythromycin Estolate, 10195, Canine Liver, 100mg/kg, 10 days	Erythromycin Estolate, 10315, Canine liver, 100mg/kg, 10 day	Estradiol, 10081, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10082, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10085, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10087, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10089, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10196, Canine Liver, 0.3mg/kg, 10 days	Estradiol, 10316, Canine liver, 0.3mg/kg, 10 day	Methotrexate, 10186, Canine kidney, 2mg/kg, 2 days	Methotrexate, 10189, Canine kidney, 2mg/kg, 2 days	Methotrexate, 10199, Canine Liver, 2mg/kg, 3 days	Methotrexate, 10319, Canine liver, 2mg/kg, 3 day	
Glutathione S-transferase alpha subunit	1.9	1.0	2.0	1.9	1.1	-1.0	-1.3	1.8	1.1	1.0	1.0	1.0	1.0	1.5	1.6	1.5	-1.1	1.0	1.0	1.0	1.0	1.1	1.0	-1.5	2.6	-1.1	1.1	-1.0
GRP94	1.4	2.0	-1.0	1.1	1.9	1.5	-1.1	1.2	1.1	1.3	1.4	1.4	-1.3	1.6	1.0	-1.0	1.3	1.4	1.3	1.8	1.2	-1.2	1.1	-1.1	1.9	1.1		
Heat shock protein 27	-1.5	3.3	1.0	1.1	-1.2	-1.0	1.4	-1.1	-1.1	1.0	1.0	1.0	-1.2	-1.9	1.0	1.5	1.0	1.0	1.0	1.5	-1.5	1.2	1.1	-1.1	-1.1	1.2		
Histidine ammonia-lyase	-1.4	1.1	1.0	1.2	-1.3	-1.5	-1.0	-1.0	-1.0	-1.3	-1.2	-1.2	-1.2	-1.4	1.3	1.0	-1.3	-1.2	-1.3	1.3	-1.4	1.3	1.1	-1.0	-1.2	1.2		
Interleukin-10	1.4	1.7	-1.1	5.3	1.1	1.2	-1.1	5.9	-1.0	1.3	1.3	1.3	1.2	1.1	1.0	1.2	1.3	1.3	1.3	1.3	-1.1	1.3	-1.0	6.4	-1.1	1.6	-1.0	
Interleukin-8	-1.1	-1.3	-1.5	1.2	1.2	-1.0	-1.4	1.2	-1.0	1.1	1.1	1.1	-1.0	1.1	-1.1	1.1	1.1	1.1	1.1	1.1	1.1	-1.2	1.2	1.3	1.3	-1.2		
Keratinocyte growth factor	-1.1	-1.4	-1.1	1.6	1.1	-1.1	-1.2	1.6	-1.1	1.1	1.1	1.1	-1.3	1.2	-1.2	1.2	1.2	1.2	1.1	1.1	-1.2	-1.0	1.0	1.6	1.3	1.1	-1.2	
Mek5	1.1	-1.4	1.2	1.1	1.1	-1.0	-1.0	1.2	-1.1	1.2	1.2	1.2	1.2	1.1	1.1	-1.0	-1.0	1.2	1.2	1.2	1.0	1.0	1.1	1.2	1.0	1.1	1.0	
Metallothionein 1	1.4	-2.1	1.0	2.5	2.1	1.7	1.1	3.1	-1.0	1.2	1.2	1.2	-1.1	1.1	-1.3	-1.0	1.2	1.2	1.2	1.2	-1.3	-1.0	-1.5	2.7	-1.5	2.0	1.5	
Multidrug resistant protein-1	1.4	1.4	-1.1	-1.2	1.2	1.4	1.0	-1.2	1.2	1.5	1.5	1.5	-1.3	1.6	1.1	1.3	1.5	1.5	1.5	1.5	1.9	1.1	-1.1	-1.5	1.1	1.8	1.1	
N-cadherin	1.6	1.3	1.2	-1.3	-1.0	1.1	-1.1	-1.1	1.1	1.1	1.1	1.1	1.1	1.2	1.3	1.1	-1.0	1.1	1.1	1.1	1.1	-1.0	-1.0	-1.2	1.0	1.3	1.0	
p38 MAPK	-1.3	-2.4	-1.4	-1.1	1.2	-1.3	-1.1	-1.0	-1.1	-1.0	-1.0	-1.0	-1.0	-1.5	1.1	-1.1	-1.1	-1.0	-1.0	-1.0	-1.6	-1.2	-1.2	-1.1	1.3	1.5	1.0	
p53	1.6	1.3	1.0	1.2	1.4	1.3	1.1	1.2	1.4	1.4	1.4	1.4	1.6	1.5	1.2	1.2	1.4	1.4	1.4	1.4	1.1	1.4	1.1	1.3	1.2	2.1	1.5	
Paraoxonase2 (PON2)	1.3	-1.4	1.1	1.9	-1.0	1.2	-1.3	2.1	-1.6	1.5	1.5	1.5	-1.4	1.5	1.1	1.6	1.5	1.5	1.5	1.5	-1.1	-1.1	-1.4	2.0	1.3	1.4	-1.1	
Phase-1 CCT-1	1.1	-2.8	1.2	-1.2	-1.3	-1.3	1.0	-1.1	-1.2	-1.1	-1.1	-1.1	-1.1	1.0	1.3	-1.2	-1.1	-1.1	-1.1	-1.1	-1.0	-1.1	-1.1	-1.1	1.3	1.1	1.4	

Genes	Acetaminophen, 10198, Canine Liver, 300mg/kg, 10 days	Acetaminophen, 10188, Canine kidney, 300mg/kg, 2 days	Acetaminophen, 10318, Canine liver, 300mg/kg, 10 day	Acetaminophen, 10185, Canine kidney, 300mg/kg, 2 days	Amphotericin B, 10190, Canine kidney, 0.8mg/kg, 2 days	Amphotericin B, 10197, Canine Liver, 0.8mg/kg, 2 days	Amphotericin B, 10317, Canine liver, 0.8mg/kg, 2 day	Amphotericin-B, 10187, Canine kidney, 0.8mg/kg, 2 days	Erythromycin estolate, 10080, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10083, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10084, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10086, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10088, canine kidney, 100mg/kg, 10 days	Erythromycin Estolate, 10195, Canine Liver, 100mg/kg, 10 days	Erythromycin Estolate, 10315, Canine liver, 100mg/kg, 10 day	Estradiol, 10081, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10082, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10085, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10087, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10089, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10196, Canine Liver, 0.3mg/kg, 10 days	Estradiol, 10316, Canine liver, 0.3mg/kg, 10 day	Methotrexate, 10186, Canine kidney, 2mg/kg, 2 days	Methotrexate, 10189, Canine kidney, 2mg/kg, 2 days	Methotrexate, 10199, Canine Liver, 2mg/kg, 3 days	Methotrexate, 10319, Canine liver, 2mg/kg, 3 day	
Phase-1 CCT-10	1.1	-2.2	-1.0	-1.0	-1.1	1.0	-1.2	-1.1	-1.3	-1.1	-1.1	-1.1	-1.1	1.1	1.0	-1.1	-1.5	-1.1	-1.1	-1.1	-1.1	-1.0	-1.5	-1.1	-1.1	1.0	-1.0
Phase-1 CCT-11	1.1	-1.7	1.2	1.1	1.3	1.2	1.1	1.1	-1.0	1.2	1.2	1.2	1.2	1.4	1.1	1.1	-1.1	1.2	1.2	1.2	1.1	1.3	-1.1	1.1	-1.2	1.5	1.4
Phase-1 CCT-12	-1.3	1.3	-1.0	1.4	-1.1	-1.3	1.1	1.3	1.1	-1.1	-1.1	-1.1	-1.1	1.0	-1.6	-1.0	-1.0	-1.1	-1.1	-1.1	1.1	-1.1	1.2	1.4	-1.0	-1.3	-1.1
Phase-1 CCT-13	-1.1	1.7	1.0	2.4	1.0	-1.1	1.0	2.3	1.0	-1.1	-1.1	-1.1	-1.1	1.1	-1.3	1.1	-1.2	-1.1	-1.1	-1.1	1.2	-1.1	1.2	2.2	-1.1	-1.2	1.0
Phase-1 CCT-14	-1.2	-1.7	1.1	1.0	1.2	-1.0	1.1	1.1	1.0	1.2	1.2	1.2	1.2	1.1	-1.2	1.0	1.3	1.2	1.2	1.2	1.1	1.1	1.2	1.1	-1.0	1.0	1.2
Phase-1 CCT-15	-1.1	1.2	-1.0	1.4	-1.0	-1.2	1.1	1.2	-1.0	-1.1	-1.1	-1.1	-1.1	-1.0	-1.4	-1.1	-1.1	-1.1	-1.1	-1.0	-1.0	1.1	1.3	1.0	-1.3	-1.1	-1.1
Phase-1 CCT-16	-1.2	1.2	-1.0	-1.1	1.1	1.0	1.1	-1.1	1.0	1.2	1.2	1.2	1.2	-1.1	-1.2	1.0	1.1	1.2	1.2	1.2	1.2	1.0	1.1	-1.2	1.0	-1.1	1.0
Phase-1 CCT-17	-1.0	1.1	-1.0	-1.0	1.1	-1.1	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	-1.1	-1.1	1.0	1.0	1.0	1.0	1.0	1.1	1.3	1.0	-1.3	-1.1	-1.1
Phase-1 CCT-18	-1.6	1.2	1.1	1.2	-1.1	-1.4	1.1	1.2	1.2	1.2	1.2	1.2	1.2	-1.1	-1.8	1.1	1.2	1.2	1.2	1.6	1.3	1.6	1.2	1.1	-1.1	1.1	1.2
Phase-1 CCT-19	-1.5	1.5	-1.0	1.0	-1.0	1.0	1.0	-1.0	1.2	-1.1	-1.1	-1.1	-1.1	1.0	-1.5	1.1	1.5	-1.1	-1.1	-1.1	1.2	-1.3	1.5	-1.1	1.0	-1.1	1.0
Phase-1 CCT-2	-1.1	-1.3	1.0	-1.2	-1.0	-1.1	1.0	-1.1	-1.0	-1.0	-1.0	-1.0	-1.0	-1.0	-1.3	1.0	-1.2	-1.0	-1.0	1.1	-1.2	1.0	-1.1	-1.1	-1.1	1.1	1.0
Phase-1 CCT-20	1.0	1.9	1.2	-1.2	-1.4	-1.2	-1.2	-1.3	-1.2	1.0	-1.0	-1.0	-1.0	-1.3	1.0	1.1	-1.4	1.0	1.0	1.0	1.9	-1.2	-1.2	-1.4	-1.3	1.0	1.3
Phase-1 CCT-21	-1.0	-1.0	1.1	-1.0	-1.1	1.0	1.0	1.0	-1.2	-1.1	-1.1	-1.1	-1.1	1.0	-1.1	-1.0	-1.5	-1.1	-1.1	-1.1	-1.2	1.2	-1.0	-1.1	-1.4	-1.0	1.1
Phase-1 CCT-22	-1.3	-1.1	1.1	-1.1	-1.0	1.0	1.4	-1.2	-1.0	1.2	1.2	1.2	1.2	-1.2	-1.4	1.1	1.3	1.2	1.2	1.2	1.0	-1.1	1.5	1.1	1.1	-1.2	-1.0
Phase-1 CCT-24	-1.1	-1.7	1.0	-1.0	-1.1	-1.0	1.0	1.0	-1.2	-1.1	-1.1	-1.1	-1.1	1.1	-1.2	-1.0	-1.3	-1.1	-1.1	-1.1	-1.2	1.1	1.0	-1.1	-1.3	-1.1	1.1
Phase-1 CCT-25	1.2	2.0	1.2	-1.9	1.0	1.9	1.6	-1.7	-1.5	1.0	1.0	1.0	1.0	-1.3	1.1	1.1	1.1	1.0	1.0	1.0	1.8	1.3	1.0	-1.8	-1.1	-1.1	-1.1
Phase-1 CCT-26	1.2	-1.8	-1.4	-1.0	1.1	1.0	1.0	-1.2	-1.3	-1.7	-1.6	-1.6	-1.6	-1.5	-1.1	-1.0	-1.9	-1.7	-1.6	-1.7	1.2	1.5	1.1	-1.0	-1.0	-1.5	-1.2
Phase-1 CCT-27	-1.7	1.9	1.0	1.4	1.0	-1.5	1.2	1.1	1.4	1.3	1.3	1.3	1.3	-1.1	-2.4	1.2	1.4	1.3	1.3	1.3	1.7	-1.6	2.2	1.3	1.1	-1.7	1.0
Phase-1 CCT-28	-1.1	-1.9	1.2	-1.3	-1.0	1.3	1.5	-1.3	-1.3	1.1	1.1	1.1	1.1	-1.4	-1.3	1.1	1.2	1.1	1.1	1.1	1.8	-1.0	1.2	-1.1	1.1	-1.2	-1.0
Phase-1 CCT-29	1.2	-1.9	-1.1	-1.3	-1.1	1.2	1.1	-1.2	-1.2	-1.0	-1.0	-1.0	-1.0	-1.1	-1.0	-1.0	-1.4	-1.0	-1.0	-1.0	-1.1	1.2	-1.0	-1.2	-1.1	1.2	1.0

Genes	Acetaminophen, 10198, Canine Liver, 300mg/kg, 10 days	Acetaminophen, 10188, Canine kidney, 300mg/kg, 2 days	Acetaminophen, 10318, Canine liver, 300mg/kg, 10 day	Acetaminophen, 10185, Canine kidney, 300mg/kg, 2 days	Amphotericin B, 10190, Canine kidney, 0.8mg/kg, 2 days	Amphotericin B, 10197, Canine liver, 0.8mg/kg, 2 days	Amphotericin B, 10317, Canine liver, 0.8mg/kg, 2 day	Amphotericin B, 10187, Canine kidney, 0.8mg/kg, 2 days	Erythromycin estolate, 10080, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10083, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10084, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10086, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10088, canine kidney, 100mg/kg, 10 days	Erythromycin Estolate, 10195, Canine Liver, 100mg/kg, 10 days	Erythromycin Estolate, 10315, Canine liver, 100mg/kg, 10 day	Estradiol, 10081, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10082, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10085, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10087, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10089, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10196, Canine Liver, 0.3mg/kg, 10 days	Estradiol, 10316, Canine liver, 0.3mg/kg, 10 day	Methotrexate, 10186, Canine kidney, 2mg/kg, 2 days	Methotrexate, 10189, Canine kidney, 2mg/kg, 2 days	Methotrexate, 10199, Canine Liver, 2mg/kg, 3 days	Methotrexate, 10319, Canine liver, 2mg/kg, 3 day
Phase-1 CCT-3	-1.1	-5.4	1.1	-1.4	-1.1	-1.2	1.1	-1.4	-2.3	1.1	1.2	1.2	-1.9	-1.2	1.1	-1.8	1.1	1.2	1.1	-1.6	1.2	1.0	-1.4	-1.0	-1.1	1.2
Phase-1 CCT-30	-1.1	1.4	1.0	-1.0	1.1	-1.1	1.1	1.0	1.3	1.3	1.3	1.3	1.5	-1.1	-1.0	1.1	1.3	1.3	1.3	1.4	1.1	1.1	-1.1	1.0	1.4	1.2
Phase-1 CCT-31	-1.5	1.0	1.0	1.1	1.0	-1.3	-1.0	1.1	1.1	1.0	1.0	1.0	1.4	-1.4	1.1	1.0	1.0	1.0	1.0	1.4	1.1	1.4	1.1	1.1	-1.2	1.1
Phase-1 CCT-32	-1.7	1.3	1.1	1.2	-1.0	-1.5	1.2	1.1	1.1	1.2	1.2	1.2	-1.3	-1.9	1.1	1.2	1.2	1.2	1.2	1.8	-1.5	1.8	1.5	1.1	-1.4	1.0
Phase-1 CCT-33	-1.3	-1.1	-1.0	1.0	1.0	-1.3	1.1	-1.1	1.1	-1.1	-1.1	-1.1	-1.1	-1.1	1.0	-1.7	1.1	1.0	-1.1	-1.1	-1.2	1.3	1.5	1.0	1.1	-1.2
Phase-1 CCT-34	-1.5	1.5	-1.0	1.1	1.0	-1.5	-1.1	1.1	1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	1.4	-1.1	-1.1	-1.1	-1.1	1.3	1.2	1.4	1.1	1.1	-1.0
Phase-1 CCT-35	1.1	-1.6	-1.0	-1.2	1.0	-1.1	-1.2	-1.2	-1.1	-1.0	-1.0	-1.0	-1.0	-1.1	-1.2	-1.2	-1.0	-1.0	-1.0	-1.1	1.0	-1.4	-1.3	1.1	-1.0	-1.1
Phase-1 CCT-36	-1.2	1.0	-1.2	-1.1	-1.1	1.1	-1.0	-1.1	1.0	1.1	1.1	1.1	1.1	-1.2	1.0	1.2	1.1	1.1	1.1	1.4	-1.0	1.0	-1.2	1.2	-1.2	-1.2
Phase-1 CCT-37	-1.3	1.4	1.0	1.0	-1.0	-1.3	1.0	-1.0	-1.0	-1.1	-1.1	-1.1	-1.1	-1.1	-1.5	-1.0	1.4	-1.1	-1.1	1.1	1.1	1.1	1.5	-1.1	-1.0	-1.2
Phase-1 CCT-4	-1.2	-1.1	1.0	-1.1	-1.1	-1.2	1.1	-1.1	1.1	-1.1	-1.0	-1.0	-1.1	-1.6	1.1	-1.0	-1.1	-1.0	-1.1	1.2	-1.3	1.3	1.1	-1.1	-1.3	-1.0
Phase-1 CCT-40	1.1	-1.1	-1.1	1.0	-1.1	1.1	-1.0	1.0	1.2	1.1	1.1	1.1	1.3	1.5	1.1	-1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.4	-1.1
Phase-1 CCT-41	-1.2	1.5	-1.1	1.1	-1.1	-1.1	-1.1	-1.0	1.2	1.0	1.0	1.0	1.1	1.0	-1.0	1.1	1.0	1.0	1.0	1.3	1.0	1.3	1.1	1.1	-1.0	-1.1
Phase-1 CCT-42	-1.5	1.6	-1.1	1.2	-1.0	-1.5	1.0	1.1	1.1	-1.1	-1.1	-1.1	-1.1	-1.7	1.0	1.5	-1.1	-1.1	-1.1	1.2	-1.3	1.5	1.2	-1.0	-1.4	-1.1
Phase-1 CCT-43	-1.7	1.5	1.0	1.1	-1.2	-1.6	1.1	-1.0	1.2	-1.1	-1.1	-1.1	-1.2	-1.9	1.0	1.3	-1.1	-1.1	-1.1	1.5	-1.3	1.9	1.2	1.1	-1.4	-1.1
Phase-1 CCT-44	-1.5	1.7	-1.3	-1.1	1.1	1.1	1.2	-1.0	-1.0	-1.1	-1.1	-1.1	-1.1	-1.6	-1.1	1.3	-1.1	-1.1	-1.1	1.1	-1.3	1.4	1.1	1.0	-1.3	-1.1
Phase-1 CCT-45	1.1	1.6	1.2	1.8	1.1	-1.0	-1.0	1.7	-1.2	1.0	1.0	1.0	-1.4	-1.1	1.1	1.0	1.0	1.0	1.0	1.2	1.2	1.1	1.8	1.0	-1.1	1.0
Phase-1 CCT-46	1.0	-1.1	1.0	-1.1	1.0	1.2	-1.0	-1.0	-1.0	1.1	1.1	1.1	1.2	1.1	-1.1	-1.3	1.1	1.1	1.1	1.1	1.1	1.1	-1.3	-1.1	-1.3	-1.0
Phase-1 CCT-47	1.2	-1.2	1.1	1.5	1.1	1.0	-1.1	1.4	-1.1	-1.1	-1.1	-1.1	-1.1	1.0	-1.1	1.0	-1.1	-1.1	1.1	1.4	2.5	1.1	1.5	1.2	1.1	1.0
Phase-1 CCT-49	1.1	1.9	-1.1	-1.1	-1.0	1.2	-1.0	-1.1	1.0	1.3	1.3	1.3	-1.0	1.2	-1.1	1.1	1.3	1.3	1.3	1.1	1.2	1.0	-1.2	1.1	1.2	-1.1
Phase-1 CCT-5	-1.1	-3.7	-1.0	-1.4	-1.2	-1.2	1.2	-1.4	-1.6	1.0	1.0	1.0	-1.5	-1.2	1.1	-1.6	1.0	1.0	1.0	-1.5	-1.1	1.1	-1.3	-1.0	-1.2	1.1

Genes	Acetaminophen, 10198, Canine Liver, 300mg/kg, 10 days	Acetaminophen, 10188, Canine kidney, 300mg/kg, 2 days	Acetaminophen, 10318, Canine liver, 300mg/kg, 10 day	Acetaminophen, 10185, Canine kidney, 300mg/kg, 2 days	Amphotericin B, 10190, Canine kidney, 0.8mg/kg, 2 days	Amphotericin B, 10197, Canine liver, 0.8mg/kg, 2 days	Amphotericin B, 10317, Canine liver, 0.8mg/kg, 2 day	Amphotericin-B, 10187, Canine kidney, 0.8mg/kg, 2 days	Erythromycin estolate, 10080, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10083, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10084, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10086, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10088, canine kidney, 100mg/kg, 10 days	Erythromycin Estolate, 10195, Canine Liver, 100mg/kg, 10 days	Erythromycin Estolate, 10315, Canine liver, 100mg/kg, 10 day	Estradiol, 10081, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10082, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10085, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10087, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10089, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10196, Canine Liver, 0.3mg/kg, 10 days	Estradiol, 10316, Canine liver, 0.3mg/kg, 10 day	Methotrexate, 10186, Canine kidney, 2mg/kg, 2 days	Methotrexate, 10189, Canine kidney, 2mg/kg, 2 days	Methotrexate, 10199, Canine Liver, 2mg/kg, 3 days	Methotrexate, 10319, Canine liver, 2mg/kg, 3 day		
Phase-1 CCT-50	1.1	1.0	-1.0	-1.1	1.1	1.1	1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.0	1.0	-1.3	-1.1	-1.1	-1.1	-1.2	1.2	1.2	1.1	-1.2	1.1	1.0	-1.0
Phase-1 CCT-51	-1.8	1.0	1.0	1.2	-1.2	-1.5	1.1	-1.0	1.2	1.3	1.3	1.3	-1.1	-2.0	1.1	1.7	1.3	1.3	1.3	1.6	1.0	2.0	1.1	1.1	-1.4	1.0	1.1	-1.0
Phase-1 CCT-52	-1.0	1.1	1.1	1.1	-1.0	-1.1	1.1	1.2	1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.2	1.1	-1.0	-1.1	-1.1	1.0	-1.0	1.3	1.1	1.0	-1.1	1.0	1.1	1.0
Phase-1 CCT-53	1.1	-1.9	-1.3	-1.2	1.0	1.1	-1.2	-1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	-1.2	1.1	1.1	1.1	1.1	1.1	1.1	-1.2	-1.2	-1.1	1.2	-1.3	1.1
Phase-1 CCT-54	-1.2	-1.4	-1.1	-1.2	-1.3	-1.2	-1.1	-1.3	-1.3	-1.1	-1.1	-1.1	-1.1	-1.1	-1.5	-1.1	-1.4	-1.1	-1.1	-1.1	-1.3	1.1	1.2	-1.2	-1.3	-1.3	1.1	1.1
Phase-1 CCT-55	-1.7	1.9	-1.0	1.3	-1.1	-1.5	1.1	1.2	1.1	-1.1	-1.1	-1.1	-1.1	-1.3	-2.0	-1.0	1.5	-1.1	-1.1	-1.1	1.8	1.2	1.6	1.4	1.1	-1.5	-1.1	1.1
Phase-1 CCT-56	1.2	1.0	1.0	-1.1	-1.1	1.2	1.1	1.0	1.1	1.0	1.0	1.0	1.0	1.2	1.0	-1.0	-1.3	1.0	1.0	1.0	1.2	1.1	1.0	1.0	1.1	1.0	1.1	1.0
Phase-1 CCT-57	-1.2	-1.3	-1.1	-1.3	-1.1	-1.1	-1.0	-1.2	-1.1	-1.1	-1.1	-1.1	-1.1	1.1	-1.2	-1.1	-1.2	-1.1	-1.1	1.0	-1.0	1.2	-1.3	1.1	-1.2	-1.2	1.1	1.0
Phase-1 CCT-58	-1.6	1.3	1.0	-1.4	1.1	-1.4	1.1	-1.0	1.5	-1.1	-1.1	-1.1	-1.1	1.5	-1.9	1.0	1.0	-1.1	-1.1	1.0	-1.4	1.5	1.3	1.2	-1.5	-1.1	1.1	1.1
Phase-1 CCT-59	-1.8	1.1	-1.0	-1.1	-1.1	-1.6	-1.0	1.1	1.0	-1.2	-1.2	-1.2	-1.2	1.0	-2.2	1.0	1.3	-1.2	-1.2	1.2	1.2	1.6	1.6	1.0	-1.0	-1.6	-1.1	1.1
Phase-1 CCT-60	-1.1	-1.4	1.1	1.0	-1.1	-1.2	1.1	-1.1	-1.1	-1.0	-1.0	-1.0	-1.0	-1.1	-1.3	-1.0	-1.2	-1.0	-1.0	1.0	1.2	1.2	1.2	1.1	-1.1	-1.1	1.0	1.0
Phase-1 CCT-61	-1.6	1.1	1.0	1.1	-1.1	-1.6	1.0	1.3	1.1	1.1	-1.1	-1.1	-1.1	1.1	-1.9	-1.0	-1.0	-1.1	-1.1	1.2	-1.3	1.4	1.2	1.1	-1.6	-1.2	1.1	1.1
Phase-1 CCT-62	1.2	1.2	1.1	-1.4	1.1	1.1	1.0	-1.0	-1.2	-1.0	1.0	1.0	1.0	1.0	-1.0	1.0	-1.2	-1.0	1.0	-1.2	-1.1	-1.1	-1.3	-1.2	1.1	1.1	1.1	1.1
Phase-1 CCT-63	-1.8	1.4	1.0	1.0	-1.2	-1.6	1.1	-1.1	1.1	-1.1	-1.1	-1.1	-1.1	-1.3	-1.9	1.1	1.3	-1.1	-1.1	1.4	1.6	1.6	1.2	1.0	-1.7	-1.2	1.1	1.1
Phase-1 CCT-64	1.0	-1.4	-1.0	-1.2	-1.1	1.0	-1.0	1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.0	1.0	-1.1	-1.5	-1.1	-1.1	1.2	1.2	1.2	1.1	-1.0	-1.1	-1.0	-1.1	1.1
Phase-1 CCT-65	-1.3	1.7	1.0	1.1	-1.0	-1.2	1.0	1.1	1.1	-1.1	-1.1	-1.1	-1.1	1.0	-1.3	-1.0	1.1	-1.1	-1.1	1.2	1.0	1.2	1.2	1.1	-1.1	-1.1	1.0	1.0
Phase-1 CCT-66	-1.7	1.5	1.0	1.2	-1.2	-1.6	1.0	1.1	1.1	-1.2	-1.2	-1.2	-1.2	-2.1	1.1	1.7	-1.2	-1.2	1.2	1.2	1.5	1.6	1.2	1.1	-1.1	-1.1	1.0	1.0
Phase-1 CCT-67	2.3	1.4	1.8	-1.3	-1.1	1.6	1.0	-1.2	-1.3	1.0	1.0	1.0	1.0	1.3	1.3	1.0	-1.2	1.0	1.0	1.5	1.2	1.2	1.2	1.5	1.5	1.0	1.0	1.0
Phase-1 CCT-68	-1.0	1.1	1.0	1.0	-1.2	1.1	-1.0	1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	1.0	1.0	-1.3	-1.1	-1.1	-1.1	1.1	1.1	-1.1	-1.0	-1.3	-1.0	1.1	1.1
Phase-1 CCT-7	-1.1	1.0	-1.1	1.0	-1.0	-1.1	1.1	-1.1	-1.0	-1.1	-1.1	-1.1	-1.1	-1.0	-1.1	-1.1	-1.4	-1.1	-1.1	-1.1	1.2	1.2	1.0	-1.0	1.0	-1.2	1.0	1.0

Genes	Acetaminophen, 10198, Canine Liver, 300mg/kg, 10 days	Acetaminophen, 10188, Canine kidney, 300mg/kg, 2 days	Acetaminophen, 10318, Canine liver, 300mg/kg, 10 day	Acetaminophen, 10185, Canine kidney, 300mg/kg, 2 days	Amphotericin B, 10190, Canine kidney, 0.8mg/kg, 2 days	Amphotericin B, 10197, Canine liver, 0.8mg/kg, 2 days	Amphotericin B, 10317, Canine liver, 0.8mg/kg, 2 day	Amphotericin-B, 10187, Canine kidney, 0.8mg/kg, 2 days	Erythromycin estolate, 10080, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10083, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10084, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10086, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10088, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10195, Canine Liver, 100mg/kg, 10 days	Erythromycin Estolate, 10195, Canine Liver, 100mg/kg, 10 days	Erythromycin Estolate, 10315, Canine liver, 100mg/kg, 10 day	Estradiol, 10081, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10082, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10085, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10087, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10089, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10196, Canine Liver, 0.3mg/kg, 10 days	Estradiol, 10316, Canine liver, 0.3mg/kg, 10 day	Methotrexate, 10186, Canine kidney, 2mg/kg, 2 days	Methotrexate, 10189, Canine kidney, 2mg/kg, 2 days	Methotrexate, 10199, Canine Liver, 2mg/kg, 3 days	Methotrexate, 10319, Canine liver, 2mg/kg, 3 day
Phase-1 CCT-70	1.0	-2.2	1.2	-1.3	-1.2	-1.2	-1.0	-1.3	-1.1	-1.1	-1.1	-1.1	-1.1	1.1	-1.2	1.1	-1.3	-1.1	-1.1	-1.1	-1.1	-1.1	-1.0	-1.3	-1.1	-1.1	1.2
Phase-1 CCT-71	-1.1	-1.4	-1.0	-1.0	-1.1	-1.3	-1.0	-1.0	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.5	-1.1	1.0	-1.1	-1.1	-1.1	-1.1	-1.3	-1.0	-1.0	-1.1	-1.4	-1.1
Phase-1 CCT-72	1.0	-1.8	1.1	-1.0	1.1	1.0	-1.1	1.1	-1.1	1.0	1.0	1.0	1.0	1.2	1.2	1.0	-1.6	1.0	1.0	1.0	1.1	1.2	-1.3	1.0	-1.3	1.0	1.1
Phase-1 CCT-73	-1.7	1.4	1.0	1.2	-1.1	-1.7	1.2	1.1	1.1	1.1	-1.1	-1.1	-1.1	-1.1	-1.8	1.1	1.2	-1.1	-1.1	-1.1	1.2	-1.4	1.6	1.2	1.1	-1.5	-1.1
Phase-1 CCT-74	1.0	-1.8	1.1	-1.1	1.1	1.0	-1.1	1.1	-1.1	-1.0	-1.0	-1.0	-1.0	1.2	1.0	1.0	-1.6	-1.0	-1.0	-1.0	1.1	1.2	-1.2	-1.0	-1.3	1.0	1.2
Phase-1 CCT-75	-1.3	-1.2	-1.1	-1.1	-1.2	-1.4	1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.0	-1.7	-1.0	-1.2	-1.1	-1.1	-1.1	1.1	1.1	-1.4	1.1	-1.1	-1.3	1.0
Phase-1 CCT-76	-1.0	-1.3	-1.1	-1.2	1.0	-1.1	-1.1	-1.2	1.0	-1.0	-1.0	-1.0	-1.0	1.1	-1.0	-1.2	-1.1	-1.0	-1.0	-1.0	1.0	1.0	-1.2	-1.4	-1.2	-1.0	-1.1
Phase-1 CCT-78	-1.0	-1.4	1.0	-1.0	1.0	-1.2	-1.0	1.1	-1.0	1.0	1.0	1.0	1.0	1.1	-1.1	-1.1	-1.3	1.0	1.0	1.0	1.0	1.0	-1.0	-1.0	1.1	-1.2	1.1
Phase-1 CCT-79	-1.2	-1.1	-1.1	-1.1	-1.2	-1.3	1.1	-1.1	-1.0	-1.1	-1.1	-1.1	-1.1	-1.1	-1.4	1.0	-1.5	-1.1	-1.1	1.0	-1.1	1.1	1.1	-1.1	-1.1	-1.3	1.0
Phase-1 CCT-8	1.3	-1.9	-1.3	-1.3	-1.2	1.2	-1.2	-1.3	1.1	1.3	1.3	1.3	1.3	1.1	1.2	-1.1	1.0	1.3	1.3	1.3	1.3	1.1	1.1	-1.1	-1.2	1.2	1.4
Phase-1 CCT-80	-1.3	-1.3	-1.3	-1.1	1.9	1.1	-1.1	-1.1	-1.3	-1.3	-1.3	-1.3	-1.3	-1.3	-1.2	1.1	-1.3	-1.3	-1.3	-1.3	-1.0	-1.2	1.0	-1.1	-1.2	1.2	1.4
Phase-1 CCT-81	1.2	-1.9	-1.2	-1.4	1.0	1.3	1.0	-1.3	-1.1	-1.3	-1.2	-1.2	-1.2	1.0	1.2	-1.1	-2.5	-1.3	-1.2	-1.3	-1.4	1.5	-1.1	-1.4	1.1	1.1	-1.1
Phase-1 CCT-82	-1.1	1.1	-1.1	1.0	1.1	-1.1	-1.1	-1.1	1.0	1.0	1.0	1.0	1.0	-1.1	1.2	-1.0	-1.2	1.0	1.0	1.0	-1.0	-1.1	1.0	1.0	-1.1	-1.2	1.0
Phase-1 CCT-83	1.2	-1.6	-1.1	-1.4	1.1	1.3	1.1	-1.2	-1.0	-1.1	-1.1	-1.1	-1.1	1.1	1.2	1.0	-2.3	-1.1	-1.1	-1.1	-1.3	1.5	-1.1	-1.3	1.2	1.1	-1.0
Phase-1 CCT-84	-1.3	1.3	-1.0	1.3	-1.0	-1.2	1.0	1.5	1.1	-1.1	-1.1	-1.1	-1.1	-1.1	-1.4	-1.0	-1.1	-1.1	-1.1	-1.1	1.1	1.1	1.2	1.5	-1.0	-1.3	-1.1
Phase-1 CCT-87	1.3	1.4	-1.2	-1.1	1.1	1.2	-1.2	1.0	1.2	1.2	1.2	1.2	1.2	1.1	1.5	-1.2	-1.1	1.2	1.2	1.2	1.1	1.1	1.2	1.2	1.1	1.1	1.9
Phase-1 CCT-88	-1.2	1.2	1.1	1.0	-1.0	-1.1	1.4	-1.0	1.2	1.3	1.3	1.3	1.3	-1.1	-1.5	1.1	1.2	1.3	1.3	1.3	1.2	1.1	1.3	1.2	1.1	1.1	1.0
Phase-1 CCT-89	-1.1	1.4	-1.0	-1.0	1.1	-1.0	1.0	-1.1	1.1	-1.1	-1.1	-1.1	-1.1	1.3	-1.1	-1.1	-1.0	-1.1	-1.1	-1.1	1.2	1.1	1.2	1.1	-1.1	-1.0	-1.1
Phase-1 CCT-9	1.2	-4.4	1.2	-1.6	-1.3	-1.2	-1.2	-1.4	-1.4	-1.1	-1.1	-1.1	-1.1	1.1	1.0	1.1	-1.8	-1.1	-1.1	-1.1	-1.2	1.1	-1.5	-1.5	-1.3	1.2	1.4
Phase-1 CCT-91	1.0	-1.0	1.0	1.3	1.2	-1.0	1.1	1.5	1.1	-1.1	-1.0	-1.0	-1.0	1.0	-1.4	1.1	-1.3	-1.1	-1.0	-1.1	1.2	1.0	1.2	1.4	1.2	1.1	1.0



Genes	Acetamininophen, 10198, Canine Liver, 300mg/kg, 10 days	Acetamininophen, 10188, Canine kidney, 300mg/kg, 2 days	Acetamininophen, 10318, Canine liver, 300mg/kg, 10 day	Acetomininophen, 10185, Canine kidney, 300mg/kg, 2 days	Amphotetracin B, 10190, Canine kidney, 0.8mg/kg, 2 days	Amphotetracin B, 10197, Canine Liver, 0.8mg/kg, 2 days	Amphotetracin B, 10317, Canine liver, 0.8mg/kg, 2 day	Amphotetracin-B, 10187, Canine kidney, 0.8mg/kg, 2 days	Erythromycin estolate, 10080, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10083, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10084, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10086, canine kidney, 100mg/kg, 10 days	Erythromycin estolate, 10088, canine kidney, 100mg/kg, 10 days	Erythromycin Estolate, 10195, Canine Liver, 100mg/kg, 10 days	Erythromycin Estolate, 10315, Canine liver, 100mg/kg, 10 day	Estradiol, 10081, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10082, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10085, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10087, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10089, canine kidney, 0.3mg/kg, 10 days	Estradiol, 10196, Canine Liver, 0.3mg/kg, 10 days	Estradiol, 10316, Canine liver, 0.3mg/kg, 10 day	Methotrexate, 10186, Canine kidney, 2mg/kg, 2 days	Methotrexate, 10189, Canine kidney, 2mg/kg, 2 days	Methotrexate, 10199, Canine Liver, 2mg/kg, 3 days	Methotrexate, 10319, Canine liver, 2mg/kg, 3 day	
Tumor necrosis factor-alpha	1.5	-1.4	1.2	3.3	2.0	2.0	1.3	3.5	-1.3	-1.1	-1.1	-1.1	-1.1	-1.2	1.2	-1.1	-1.2	-1.1	-1.1	-1.1	-1.6	1.0	-1.5	3.3	-1.6	2.0	1.5
Ubiquitin	1.2	-1.6	-1.0	1.2	1.0	1.1	-1.2	1.3	-1.0	1.1	1.1	1.1	1.1	1.1	1.1	-1.1	-1.3	1.1	1.1	1.1	1.1	1.1	1.2	1.2	-1.1	1.4	1.2
UV excision repair protein RAD 23 (XP-C)	1.4	-2.1	-1.1	-1.0	1.0	1.6	-1.1	1.1	1.2	1.4	1.4	1.4	1.4	1.3	1.5	-1.1	1.1	1.4	1.4	1.4	1.0	1.0	1.0	1.0	1.1	1.8	-1.0
Vascular cell adhesion molecule 1 (VCAM-1)	-1.0	-2.1	-1.0	-1.1	3.5	1.1	-1.1	-1.1	-1.2	-1.0	-1.0	-1.0	-1.0	-1.2	1.1	-1.1	-1.1	-1.0	-1.0	-1.0	-1.5	1.1	-1.0	-1.2	1.2	1.2	1.0
ZAP36/annexin IV	1.5	1.1	-1.1	1.0	1.4	1.5	-1.0	1.1	1.6	1.2	1.2	1.2	1.2	1.6	1.4	-1.1	1.0	1.2	1.2	1.2	-1.1	1.2	-1.1	1.0	-1.0	1.7	-1.1